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THE UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE · 1958 · 1960

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CALENDAR

1958 — FALL QUARTER

September 29, Mon......First day of classes
November 27, Thurs......Thanksgiving Day
December 20, Sat......Quarter ends

1959 — WINTER QUARTER

December 29, Mon....Quarter begins for third-year and fourth-year students
January 1, Thurs......New Year's Day
January 5, Mon....Quarter begins for first-year and second-year students
March 21, Sat......Quarter ends

1959 — SPRING QUARTER

March 23, Mon...Quarter begins for third-year and fourth-year students
March 30, Mon...Quarter begins for first-year and second-year students
May 30, Sat......Memorial Day
June 12, Fri......Commencement exercises

1959 — SUMMER QUARTER

June 22, Mon......First day of classes
July 4, Sat......Independence Day
September 7, Mon......Labor Day
September 12, Sat......Quarter ends

UNIVERSITY OF ILLINOIS

BOARD OF TRUSTEES

MEMBERS EX OFFICIO

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Vernon L. Nickell, Superintendent of Public Instruction, Springfield

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Mrs. Doris S. Holt, 330 E. Sixth Street, Flora
Park Livingston, 3600 N. River Road, Franklin Park

Term 1955-61

Wirt Herrick, 120½ E. Main Street, Clinton
Mrs. Frances B. Watkins, 5454 Cornell Avenue, Chicago 15
Kenney E. Williamson, Sixth Floor, Lehmann Building, Peoria 2

Term 1957-63

Earl M. Hughes, Hughes Farms, Route 1, Woodstock
Wayne A. Johnston, 135 E. Eleventh Place, Chicago 5
Timothy W. Swain, 912 Central National Bank Building, Peoria 2

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Herbert Eugene Longenecker, Ph.D., D.Sc., Vice-President in charge of the Chicago Professional Colleges

Granville Allison Bennett, B.S., M.D., Dean of the College of Medicine

Donald Joseph Caseley, A.B., M.D., Associate Dean of the College of Medicine and Medical Director of the Research and Educational Hospitals

William Francis Kellow, B.S., M.D., Assistant Dean of the College of Medicine

George Robert Moon, A.M., Associate Dean of Admissions and Records for the Chicago Departments

Howard Albert Hazleton, B.S., Business Manager for the Chicago Departments

Harry Wisler Pearce, B.S., Superintendent of Buildings and Grounds for the Chicago Departments

Wilma Troxel, A.M., Librarian in the Quine Library of Medical Sciences

Maurice Jackson Galbraith, M.S., Dean of Student Affairs

Franklin Charles Dalla, B.S., Director of the Chicago Illini Union

Marvin J. Colbert, B.S., M.D., Director of Health Service for the Chicago Departments

George F. McGregor, A.M., Associate Director of Nonacademic Personnel

COMMITTEES OF THE COLLEGE OF MEDICINE, 1958-1959

Executive Committee

G. A. Bennett (Chairman), D. I. Abramson, Percival Bailey, D. J. Caseley, W. H. Cole, H. F. Dowling, J. B. Fuller, F. J. Gerty, W. J. Grove, R. A. Harvey, A. C. Ivy, G. G. Jackson, W. F. Kellow (*ex officio*), Karl Klicka (*ex officio*), C. A. Krakower, F. L. Lederer, M. H. Lepper, W. F. Mengert, F. C. Moll, M. M. Montgomery, G. R. Moon (*ex officio*), M. V. Novak, Eric Oldberg, C. L. Pirani, Carol Preucil, R. D. Ray, S. R. M. Reynolds, N. B. Roberg, I. M. Rosenthal, Adolph Rostenberg, H. N. Sanford, H. J. Shaughnessy, T. R. Sherrod, C. B. Taylor, K. R. W. Unna, Beatrice D. Wade, H. L. Wilder, R. J. Winzler, A. V. Wolf.

Advisory Committee

G. A. Bennett (Chairman), D. J. Caseley, H. F. Dowling, W. J. Grove, G. G. Jackson, W. F. Kellow, M. V. Novak, R. D. Ray, H. N. Sanford, K. R. W. Unna.

Standing Committees

The Dean is *ex officio* a member of all standing committees, and the Dean of Admissions and Records is *ex officio* a member of the Admissions and Promotions Committees.

Admissions. G. A. Bennett (Chairman), H. W. Bailey, H. A. Bliss, Harris Busch, Gibbon Butler, W. J. Grove, W. F. Kellow, E. F. Lis, Elizabeth A. McGrew, G. R. Moon (*ex officio*), P. E. Nielson, M. V. Novak, A. M. Ostfeld, C. W. Sanford (*ex officio*), P. H. Simer, Janet Wolter.

Alumni Relations. L. R. Limarzi (Chairman), L. M. Bernstein, R. T. Lidge, Armand Littman, C. C. Mason, H. K. Waddington.

Awards and Scholarships. H. R. Catchpole (Chairman), L. G. Abood, W. R. Best, Carroll L. Birch, M. J. Galbraith (*ex officio*), W. F. Kellow, I. J. Young.

Correlations and Comprehensives. C. L. Pirani (Chairman), L. J. LeBeau, and Max Samter (Co-Chairmen), N. R. Alpert, H. C. Batson, W. F. Kellow, Arthur LaVelle, J. H. Schneewind, W. G. Slate, C. M. Smith, N. E. Smith.

Correlation Conference for Freshmen. S. R. M. Reynolds (Chairman), R. E. Buenger, H. R. Catchpole, V. V. Glaviano, Edith K. MacRae, T. C. Myers, G. H. Pollock, T. R. Sherrod.

Correlation Conference for Sophomores. W. R. Best (Chairman), H. R. Catchpole, J. B. Fuller, G. G. Jackson, H. A. Kaminetzky, A. M. Ostfeld, T. R. Sherrod, Oscar Sugar.

Correlation Conference for Seniors. T. B. Schwartz (Chairman), Ruven Greenberg, R. J. Korn, J. H. McClure, G. O. McDonald, D. R. Russ, K. R. W. Unna, W. S. Wood.

Davis Lectureship. J. H. Kiefer (Chairman), Percival Bailey, F. H. Falls, T. S. Jones, R. M. Kark, L. S. King, W. E. Post.

Gehrmann Lectureship. M. V. Novak (Chairman), G. G. Jackson, H. J. Shaughnessy.

Instruction. W. F. Kellow (Chairman), J. A. Campbell, D. J. Caseley, W. H. Cole, H. F. Dowling, J. B. Fuller, E. F. Lis, W. F. Mengert, F. C. Moll, P. E. Nielson, A. M. Ostfeld, M. E. Rafelson, R. D. Ray, C. M. Smith, W. V. Whitehorn.

Internship. I. M. Rosenthal (Chairman), M. J. Galbraith (*ex officio*), W. F. Kellow, M. H. Lepper, G. A. Saxton, T. B. Schwartz, W. S. Wood.

Medical Education for National Defense. M. H. Lepper (Chairman), N. R. Alpert, J. P. Marbarger, J. S. Schneewind, W. S. Wood.

Postgraduate Instruction. Armand Littman (Chairman), D. J. Caseley, K. C. Johnston, A. F. Lash, G. O. McDonald, W. L. Wilder.

Promotions (First and Second Years). M. V. Novak (Chairman), H. C. Batson, S. B. Binkley, M. J. Galbraith (*ex officio*), R. M. Kark, W. F. Kellow, C. A. Krakower, G. R. Moon (*ex officio*), P. E. Nielson, S. R. M. Reynolds, K. R. W. Unna, W. V. Whitehorn.

Promotions (Third and Fourth Years). Eric Oldberg (Chairman), E. J. Beattie, M. J. Colbert, N. J. Cotsonas, M. J. Galbraith (*ex officio*), W. J. Grove, W. F. Kellow, J. H. McClure, G. R. Moon (*ex officio*), P. E. Nielson, R. D. Ray, I. M. Rosenthal, F. E. Trobaugh.

Senior-Faculty Dinner Planning. C. A. Johnson (Chairman), Carroll L. Birch, M. J. Galbraith, R. D. Ingraham, F. L. Lederer, Esther Meyer, G. R. Moon.

1. Colleges of Medicine and Dentistry, School of Nursing, and Research and Educational Hospitals
2. College of Pharmacy
3. University of Illinois Student Residence Hall
4. Presbyterian-St. Luke's Hospital
5. Cook County Hospital
6. West Side Veterans Administration Hospital
7. State Department of Public Health Laboratories

UNIVERSITY OF ILLINOIS MEDICAL CENTER — CHICAGO, ILLINOIS

Chicago Aerial Industries, Inc.

LOCATION, HISTORY, AND ADMINISTRATION

Location

The College of Medicine of the University of Illinois is located in the great medical center on the west side of Chicago. The work of the College, together with the related work in the Colleges of Dentistry and Pharmacy, the School of Nursing, and the Graduate College, is centralized in the laboratory building facing on Polk, Wood, and Wolcott Streets. The campus, which is about two miles west of the Loop, or main business district of Chicago, can be reached conveniently by elevated train, bus, or automobile.

The University buildings contain the administrative offices of the College, the library, lecture rooms, classrooms and large laboratories for classwork, numerous small laboratories for individual research, an autopsy amphitheater, and the clinics and hospitals. The last include the University of Illinois Research and Educational Hospitals and the Neuropsychiatric Institute. The Illinois Eye and Ear Infirmary is located near the campus. This infirmary is operated jointly by the University and the State Department of Public Welfare. Close to the college campus are the Cook County Hospital, Chicago-State Tuberculosis Hospital, West Side Veterans Administration Hospital, and Presbyterian-St. Luke's Hospital, all of which are used for student teaching.

History

The College of Medicine was originally an independent, proprietary institution. It opened October 14, 1881, as the College of Physicians and Surgeons of Chicago. It became affiliated with the University of Illinois under a lease in 1897, and in 1900 its name was changed to the College of Medicine of the University of Illinois. Not until 1913, however, did it become an integral part of the University. During most of its early history it was located north of Cook County Hospital in the area now forming the Louis Pasteur Park. In 1931 the College was moved to its present quarters in the west unit of the Dentistry-Medicine-Pharmacy Building. In 1941 the Presbyterian Hospital (now merged with St. Luke's Hospital) became affiliated with the University and members of the staff of Rush Medical College were incorporated into the faculty of the College of Medicine.

Graduate work has been offered in the Chicago departments since 1915. The present work of the Graduate College is described in detail in a separate announcement.

Administration

The Chicago Professional Colleges include the Colleges of Medicine, Dentistry, and Pharmacy and the School of Nursing, each of which is administered in its internal affairs by its dean and its faculty. The Vice-President in charge of the Chicago Professional Colleges, under the direction of the President, serves as the chief administrative officer. The Chicago Professional Colleges and Schools have a separate Senate to deal with legislative matters of educational policy. Separate Senates are constituted for the Urbana-Champaign campus and for the Chicago Undergraduate Division of the University. A Senate Coordinating Council is organized to consider all matters acted upon by any of the three Senates and, if there is a need, to refer any action of one Senate to the other two Senates for final resolution.

HOSPITALS AND CLINICS

Research and Educational Hospitals

The Research and Educational Hospitals, planned and built for teaching and investigation, are four separate buildings, either contiguous or connected by tunnels. The units consist of (1) the original Research and Educational Hospital, known as the General Hospital, containing most of the outpatient clinics, several patient units including obstetrics and gynecology, the Recovery Room, and part of the operating suite; (2) the Illinois Surgical Institute for Children (Department of Orthopaedic Surgery), with an entire orthopaedic service including four full floors plus physical therapy and related services; (3) the Neuropsychiatric Institute, with facilities for the Department of Psychiatry and for the Department of Neurology and Neurological Surgery; and (4) the hospital addition, a fourteen-story building housing most of the central hospital services, administration offices, dietary service, radiology, some of the clinical laboratories, and eight floors of patient units. The total hospital bed capacity is 620 beds and 50 bassinets.

Clinical services of the Research and Educational Hospitals are supervised by department heads and attending physicians and surgeons of the College of Medicine faculty. A substantial number of members of the

clinical faculty devote full time to the College of Medicine and the hospitals.

Blood Bank. Newly established in enlarged quarters in a remodeled area of the General Hospital building, the Blood Bank serves the needs for whole blood, plasma, and other blood products for all departments.

Central Laboratories. Laboratory facilities of the Research and Educational Hospitals are consolidated in the Central Laboratories, with sections devoted to chemistry, serology, bacteriology, hematology, and endocrine assay.

Emergency Service. The most modern facilities for emergency care are incorporated in the Emergency Service. It is on the ground floor of the hospital addition and is readily accessible both from the ambulance drive and from the central hospital elevators to other medical facilities.

The service includes four examining rooms, two minor surgeries, complete laboratory and X-ray facilities, two overnight observation wards, and utility and office space.

Many of the cases handled by the service are brought in by the city police and fire departments. It offers both an interesting and diversified experience for the house staff and is a hospital admission source of cases needing urgent attention.

Radiology. The radiology department contains a diagnostic section,

University of Illinois Research and Educational Hospitals

which serves both outpatients and hospital patients, and a therapy section with 50-140 kv, 200 kv, and 400 kv installations. A large amount of radium is available. The department is responsible for the isotope program in the hospital. A 23 million volt betatron is housed in a separate building, accessible through the underground tunnel system.

Recovery Room. The latest concepts of intensive postoperative therapy are embodied in the Recovery Room. Personnel highly trained in postoperative care are in constant attendance. On occasion, patients from the medical service are moved to the Recovery Room when there is a demonstrated need for intensive care.

Special Laboratories. The electrocardiography laboratories are operated by the Department of Medicine and the electroencephalography facility by the Department of Neurology and Neurological Surgery. Other special laboratories are partly research in nature, with their services available for patient care on request.

Clinics

The clinics (outpatient service), in which the teaching program of the College of Medicine is carried out in conjunction with the care of ambulatory patients, are located in the Research and Educational Hospitals. These clinics include general medicine and the medical specialties (allergy, arthritis, cardiology, metabolic diseases, cirrhosis, infectious disease, and consultation clinics). There are also the surgery clinic and the surgical specialties clinics (cardiovascular and peripheral vascular surgery, plastic, oral surgery, and proctology), urology, and the tumor clinics. Clinics held by other departments are the prenatal and gynecology, dermatology, psychiatry, neurology, orthopaedic surgery, opthalmology, and otolaryngology. In addition to these clinics there is the Center for Handicapped Children, an interdepartmental activity, and the outpatient division of both physical therapy and occupational therapy services.

An admitting clinic is operated under the supervision of the Department of Medicine. Patients are screened here in advance of assignment to a "home" clinic for definitive care.

Patient visits to the clinics generally average about 200,000 each year.

Medical services in the clinics are provided principally by physicians at attending, associate or assistant attending levels. Residents and interns, to a lesser extent, work in the clinics. During their clerkships students are assigned to the various clinics as a part of their learning experience.

Other Hospitals

Presbyterian-St. Luke's Hospital. This is a general hospital of approximately 900 beds and having a large dispensary. The hospital is affiliated with the University of Illinois and is used extensively for the instruction of medical students in their junior and senior years. The members of the medical staff of the hospital hold faculty appointments in the University of Illinois College of Medicine.

Cook County Hospital. A general hospital having 3,400 beds is located directly across the street from the medical school and is used extensively in clerkship teaching.

Chicago State Tuberculosis Sanitarium. This hospital for treatment of patients with tuberculosis is located in close geographic proximity to the medical school. Some members of its staff are members of the faculty of the College of Medicine.

Illinois State Psychiatric Institute. The new Illinois State Psychiatric Institute, operated by the State Department of Public Welfare and scheduled to open in January, 1959, will be used in the teaching of psychiatry by the medical schools located in Chicago.

West Side Veterans Administration Hospital. This Veterans Administration Hospital is located two blocks west of the medical school. Its training program is under the supervision of a Deans' Committee consisting of the deans of the University of Illinois College of Medicine, the Stritch School of Medicine of Loyola University, and the Chicago Medical School, and two members of the faculty of the University of Illinois College of Medicine. Each member of the professional staff of the hospital holds an appointment in one of the three medical schools in the area and participates in the instructional program of undergraduate students and residents.

Hines Veterans Administration Hospital. This hospital is located twelve miles west of the Medical Center, and its training program is under the supervision of a Deans' Committee consisting of the deans of the University of Illinois College of Medicine, the Stritch School of Medicine of Loyola University, the Chicago Medical School, and Northwestern University Medical School. The hospital facilities are used for certain instruction programs.

Illinois Eye and Ear Infirmary. The infirmary, operated jointly by the State Department of Public Welfare and the University, is located outside the medical center district. It has 120 beds and is staffed by members of the College of Medicine faculty. It is used almost exclusively

for resident and postgraduate training in ophthalmology and otolaryngology.

Division of Services for Crippled Children. This is a unit of the University operating a state-wide program of medical, surgical, corrective, and other services and facilities for diagnosis, hospitalization, and aftercare for children who are crippled or who are suffering from conditions which lead to crippling. The division conducts 120 outpatient diagnostic, orthopaedic, speech and hearing, and treatment clinics throughout the state each year and provides hospitalization in several hospitals. It maintains close working relationships with the College of Medicine and the Research and Educational Hospitals, where a considerable number of its patients are provided with care. It cooperates also with the State Department of Public Health, the State Department of Public Welfare, the State Superintendent of Public Instruction, the State Division of Vocational Rehabilitation, and the State Commission for Handicapped Children.

LIBRARY

The library contains a comprehensive collection of standard and modern works on medical, dental, nursing, and pharmaceutical subjects, with over 1,200 current periodicals and more than 128,000 books on the shelves at present. It is used by professional men throughout the Chicago area, and its service to the University staff and student body is supplemented by loan arrangements with other libraries.

MUSEUMS

The College has two museums: the Anatomy Museum, including gross anatomy, histology, embryology, and neurology; and the Pathology Museum, including gross specimens for purposes of instruction of undergraduate and postgraduate students of medicine.

RECREATIONAL FACILITIES

The social and recreational center for students, alumni, and faculty members is the Chicago Illini Union Building, 715 South Wood Street. Its facilities include a cafeteria, grill, soda fountain, browsing room, music room, gymnasium, meeting rooms, and game rooms. Intramural sports under a trained director are encouraged, and facilities and equip-

ment are available for softball, touch football, horseshoes, tennis, archery, wrestling, fencing, badminton, basketball, handball, and ping-pong. Through special arrangements, the swimming pool of the nearby Y.M.C.A. is available to students.

HOUSING

Students and staff members of the University may be housed in either the Student Residence Hall or the Staff Apartment Building. Both facilities offer convenient and comfortable living quarters at reasonable rates.

The facilities of the Student Residence Hall include a modern food service kitchen, cafeteria, and coffee bar where meals and snacks are served daily. The building accommodates 412 persons in 196 double, 13 single, and seven counselor rooms. Each floor is equipped with a

One of Two Reading Rooms in the Quine Library of Medical Sciences

central shower and washroom. Other conveniences provided include a laundry room, pressing rooms, a recreation room, a lounge-television room, and two automatic elevators.

Cost for accommodations in the Student Residence Hall covers room and board, which includes twenty meals a week. This cost also includes the services of housemen for general maintenance work and maids who make beds and clean rooms.

A staff of seven counselors supervise the social-recreational program, living and study conditions, and also aid in the personal problems of the students. A student government promotes and maintains an effective program of self-government.

Assignments to the Student Residence Hall are based upon established occupancy and date of application. The contracted period is for the entire academic year. Payments may be made quarterly in advance.

REQUIREMENTS FOR ADMISSION

General Regulation and Directions

Applications for admission to the College of Medicine should be addressed to the Office of Admissions and Records, 1853 West Polk Street,

Student Resident Hall

Chicago 12. Official credentials, covering all collegiate and secondary school work done by the applicants, must be sent directly from each institution attended. Since space limitations make it necessary to restrict enrollment, applicants should have their credentials mailed as early as possible. Applications are received between July 1 and January 1. New classes enroll only in the fall, usually late in September. Veterans may attend under the provisions of Public Law 550. The veteran should consult the Office of Veterans Administration to apply for the benefits.

Physical Examination and the Health Service. Each applicant who is tentatively accepted must have a physical examination by the University Health Service on this campus. A chest X-ray is also taken at this time.

It is strongly urged that each applicant, after acceptance, visit his family physician and dentist in order to attend to such items as dental repairs and fitting for glasses. After school has begun, the student finds it difficult to have these essential things done without loss of time from classes. It is also required that each student have a smallpox vaccination and immunizations for typhoid fever, tetanus, and diphtheria within a five-year period prior to registration, and his family physician must certify the dates on which these procedures were done. It is also recommended that all students have three injections of poliomyelitis vaccine. This is available at the present time through the University Health Service at a nominal cost to the student.

A tuberculin test is done on all medical students during the first year of medical school, and subsequent tuberculin tests are done if indicated. All students are urged to have annual chest X-rays during their years in medical school, and a chest X-ray is required before graduation.

Selection of Applicants. As the capacity of the College of Medicine is limited, selection of applicants is necessary. Selection is made by the Committee on Admissions. No student is considered who is on scholastic probation or who has been dropped for poor scholarship from the last institution attended prior to seeking admission to the University of Illinois. Applicants who meet in full the course and grade average requirements are considered by the committee.. In selecting applicants, the committee takes into consideration such factors as scholastic records, the schools and colleges previously attended, letters of recommendation, especially from teachers in the laboratory sciences, health records, aptitude tests, and such special examinations and other qualifications as may be determined by the committee. All students are considered on the basis of individual qualifications without regard to race, color, creed, or

national origin. Other factors being equal, preferential consideration is given to applicants who are residents of Illinois. A personal interview with the committee or its representative may be required. Invitations to register are sent to approved applicants.

Deposits. Each applicant who is assigned a place in any class in the College of Medicine is required to make a deposit of $60.00 by January 15 or within two weeks of the date of notification if notified after that date that he will be admitted. This deposit is applied on fees assessed against him at the time of registration. Failure to pay this deposit within the specified time subjects the applicant to forfeiture of his place. Twenty dollars of the deposit is returned if the applicant notifies the Office of Admissions and Records, at least thirty days before the time for registration, that he will not be able to enter. The Dean of Admissions and Records is authorized to make refunds after that time when, in his judgment, the circumstances so justify.

Renewing Applications. An applicant who has been accepted for admission but fails to enroll, and who wishes to enter in a subsequent year, must reapply for admission and must meet all the requirements in force at the time of the new application.

Special Requirements

The course requirements as stated below must be met in full before admission will be granted. No student is considered by the Committee on Admissions who does not present evidence that he will complete all course requirements before July 1 of the year in which he expects to enroll. No conditions are permitted, but the Committee on Admissions may waive full compliance with the course specifications if the applicant possesses unusually high qualifications. It is the general policy of the College to encourage a broader education and courses of a cultural nature rather than excessive amounts of science. It is felt that the sciences required for admission are sufficient and that additional studies in this field may well be left for the medical years in order that the premedical years may be devoted to the social sciences and humanities.

Each applicant for admission to the College of Medicine, in addition to the general regulations and directions stated above, must have at least eighty-eight semester hours of acceptable credit from a recognized college or university, exclusive of hygiene, military science, and physical education. The eighty-eight semester hours must be distributed as follows:

	HOURS
Chemistry (including, in addition to introductory courses, four hours of organic chemistry and three hours of quantitative analysis)	14
Physics (including laboratory work in mechanics, heat, sound, light, and electricity)	8
Biology (including laboratory courses in general and vertebrate zoology or comparative anatomy and general embryology)	10
English	6
Foreign Language	6
This requirement is waived if the student has completed four years of one language in high school or completes the last course of a two-year college language sequence. Non-science courses must replace the language in such a case.	
Social science and humanities (at least three hours from each area)	16
The following are considered social sciences: anthropology, economics, geography, history, political science, psychology, sociology; humanities include literature (American, English, foreign), advanced composition, philosophy, and the fine arts.	
Electives (at least four hours non-science)	28
Total	88

Grade Requirement. Each applicant for admission to the College of Medicine must have attained a scholastic average of not less than 3.5, or its equivalent as determined by the University of Illinois for institutions using a different grading system.[1]

The Medical College Admission Test. All candidates are required to take the Medical College Admission Test recommended and approved by the Association of American Medical Colleges.

Preference to Illinois Residents. In considering applications for admission to the College of Medicine, the Committee on Admissions gives preference to candidates who are residents of Illinois. Nonresidents who present strong scholastic records will be considered. Places in the first-year class are assigned to applicants from Cook County and to applicants from Illinois outside of Cook County in the proportion which each area bears to the total population of the state according to the latest federal census, provided that if at any time the quota from either area is not filled the remaining places may be assigned to applicants from the other area. On this basis at the present time, approximately 50 per cent

[1] This rule is interpreted according to the number of passing grades. In a system of four passing grades, A, B, C, and D, the literal grades are translated into figures as follows: A = 5; B = 4; C = 3; D = 2; E (failure) = 1. Where there are more or fewer than four passing grades, computation is adjusted to make the same level of accomplishment apply. The individual grades are multiplied by the respective number of semester hours which each represents, and the sum of these products is divided by the total number of semester hours taken. In the case of repeated courses, both grades earned are counted in computing the average.

of the places in the first-year class are assigned to applicants from Cook County and 50 per cent to applicants who are residents of Illinois outside of Cook County.

In determining the priority of admission of an applicant, the Committee on Admissions takes into account the nature and apparent permanency of his residence in this state, the residence of his parents, and all other facts which are relevant.

Admission with Advanced Standing. It is possible to admit a limited number of transfer students to the third-year class in the College of Medicine. In considering applications, the Committee on Admissions gives preference to the candidates who present the strongest scholastic records. Except in unusual cases, no student who is on probation or who has been dropped for any reason from a medical school is considered for admission.

REQUIREMENTS FOR GRADUATION

A candidate for a degree in the College of Medicine must meet the following general requirements: (1) show evidence of good moral character, (2) pay all indebtedness to the University, (3) obtain passing grades in all courses of the required curriculum, and (4) have grades averaging "C" in the total hours taken in the College and counted toward the degree.[1]

Degrees

In addition to the general requirements for graduation, the special requirements for each degree in the College of Medicine are as follows:

Doctor of Medicine. Awarded to students who have completed four years in attendance at an approved medical school, of which at least the last year must have been at the University of Illinois, and who have completed the prescribed curriculum and passed the comprehensive examinations required at the end of the fourth year.

Bachelor of Science in Occupational Therapy. Awarded on completion of a ten-semester curriculum, six semesters of which are taken on the Urbana campus and an equivalent of four on the Chicago campus and in affiliated hospitals. A minimum total of 180 quarter hours (120 semester hours) is required for graduation.

[1] Where it is necessary to translate percentages into literal grades, the following values are used: A, 92 to 100 per cent; B, 85 to 91 per cent; C, 75 to 84 per cent; D, 70 to 74 per cent; E, below 70 per cent, failure.

Honors

A student who complies with the requirements for graduation, and who attains in all work presented for the degree the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors awarded are noted on the diploma and in the Commencement program.

SPECIAL COURSES FOR PHYSICIANS

The College of Medicine offers a number of special advanced courses which are open to graduates of approved medical schools. The fee for each full-time course is $50.00 a month or $150.00 a quarter, plus laboratory and clinic fees. Part-time postgraduate students in short courses pay $25.00 a day for non-laboratory courses, $35.00 a day for laboratory courses. These courses are not accepted by the Graduate College for advanced degrees, and no grades are given, but the University keeps a record of the registrations and of the time spent by each registrant. Descriptions of the courses appear in a special postgraduate section of this catalog.

FEES AND EXPENSES

All fees are payable in full when the student registers. The Board of Trustees of the University reserves the right to change the fees at any time through publication in the annual announcements.

A schedule of fees for regular full-time students in the College of Medicine is listed below. One-third of each year's fees is paid at registration for each quarter.

	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Ill.	*Non-Ill.*	*Ill.*	*Non-Ill.*	*Ill.*	*Non-Ill.*	*Ill.*	*Non-Ill.*
Tuition Fee.....	$150.00	$501.00	$150.00	$501.00	$150.00	$501.00	$150.00	$501.00
Building and Laboratory Service Fee.....	183.00	252.00	183.00	252.00	231.00	300.00	231.00	300.00
Union Building Service Charge..	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Total.....	$343.50	$763.50	$343.50	$763.50	$391.50	$811.50	$391.50	$811.50

Late Registration Fee. Former students who register after the regular registration days in any quarter pay a late registration fee of $5.00.

Special Examination Fee. For any special examination to remove a failure, the fee is $10.00.

Study-List Change Fee. A fee of $1.00 is charged for every study-list change slip. This rule applies also to registration for electives after the dates specified for regular registration.

Transcript Fee. Each student who has paid all his University fees is entitled to receive without charge one transcript of his record. For each additional transcript the fee is $1.00.

Fees for Part-Time Students. Residents of Illinois registered for partial programs of two hundred clock hours or less in a quarter in the College of Medicine pay tuition fees at the rate of $5.00 and building and service fees at the rate of $5.00 for twenty-five clock hours or fraction thereof; non-Illinois students pay tuition fees at the rate of $18.00 and building and service fees at the rate of $18.00 for twenty-five clock hours or less. Undergraduate students taking more than two hundred clock hours in a quarter pay the full tuition and building service fees.

Fees for Unclassified Students. Fees charged unclassified students are based on the amount of work taken.

Service Charge for Deferred Fees. In cases of necessity, students may arrange for deferment of fees by calling at the Business Office. A service charge of 10 per cent of the amount of fees deferred, but not to exceed $2.00 a quarter, is charged for the privilege of deferring fees, and this charge must be paid on the day of registration. If deferred fees are paid in full within ten days after registration, the service charge is refunded except that a minimum service charge of $1.00 is retained by the University in all cases. The service charge, not less than one-third of the current quarter's fees, and all fees and charges from previous terms must be paid on the day of registration. Failure to make payment of fees within the time limits cancels at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit is recorded for class-work completed unless all fees and other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

Refunds. If a student withdraws within ten days after the beginning of instruction, his total fees (except the $15.00 deposit) are refunded. After ten days and before the expiration of one month, a refund of two-thirds of his total fees is made. After one month and before the expiration of two months, a refund of one-third of these fees is made. After the expiration of two months, no part of the fees is refunded.

Expenses

From $90.00 to $125.00 a month may be regarded as adequate for the ordinary living expenses of a student in Chicago, exclusive of books, clothing, railroad fare, and miscellaneous needs. The expense for books varies between $50.00 and $100.00 a year. Each student is required to provide himself with a satisfactory microscope, a haemocytometer, and an ophthalmoscope. Members of the faculty check the condition of the microscopes upon request. Microscopes may be procured on a rental basis.

SCHOLARSHIPS, PRIZES, AND LOAN FUNDS

Scholarships for Medical Students

Berkelhamer Scholarship. A scholarship has been established by the family of Dr. Ralph C. Berkelhamer, graduate of the University of Illinois College of Medicine, who died as a prisoner of war in October, 1944. One hundred dollars is awarded yearly to a deserving and needy student.

General Assembly Scholarships. Each member of the General Assembly may nominate, annually, one student from his district for a scholarship in the University. Provision is made for substitute appointments in case the original nominee fails to qualify or discontinues his course. This scholarship exempts the holder from the payment of the tuition fees *only* in any course in the University for a period of four years.

Military Scholarships. Any person who is not receiving financial assistance for educational purposes from the Federal Government and who served in the Army, Navy, Air Force, or Marine Corps of the United States during World War I, or at any time after September 16, 1940, and who has been honorably discharged, is entitled to a scholarship in the University of Illinois if he possesses the necessary entrance requirements and if he was a resident of the state of Illinois or a student in the University of Illinois at the time of enlistment. This scholarship exempts the holder from the tuition fees in any course in the University for four years. Applications for these scholarships may be secured from the Office of Admissions and Records.

Moldavsky Scholarship. This scholarship, presently amounting to $500.00 a year, is available to a regularly enrolled student in the College of Medicine who is in need of financial assistance and who has demonstrated outstanding qualities in course work in physiology.

Mooney Scholarship. This scholarship, presently amounting to $500.00 a year, is available to a needy and worthy student regularly enrolled in the College of Medicine. The scholarship ordinarily is awarded once in each four-year period to a freshman student and reassigned annually for three additional years of undergraduate study.

Rea Scholarships. The annual income from a fund established in 1899 by the will of Dr. Robert Laughlin Rea is used for four scholarships, awarded by a committee of the faculty, to help pay the tuition fees, of needy students in the College of Medicine. First-year students are not eligible.

Streicher Memorial Scholarship. An endowment fund has been established by colleagues and friends of the late Dr. Michael Henry Streicher, who was a member of the Department of Medicine for many years. The income from this fund is used as a scholarship for a capable and needy student enrolled in the College of Medicine. Other things being equal, preference is given to sons or daughters of graduates of the University of Illinois College of Medicine. After the award is made, if circumstances warrant, the award is reassigned annually as long as the student is enrolled as an undergraduate in the College of Medicine.

Williamson Memorial Scholarship. Members of the faculty and friends of the late Professor Charles Spencer Williamson, for many years Head of the Department of Medicine, have established an endowment fund, the income from which is used as a scholarship for a capable and needy student, either graduate or undergraduate. The award each year is made by the Dean of the College of Medicine and the Head of the Department of Medicine.

Yarros Scholarship. This fund was established by Victor S. Yarros to continue the scholarship program begun in 1948 in memory of his wife, Dr. Rachelle S. Yarros, formerly Professor of Social Hygiene at the University of Illinois College of Medicine. Scholarship awards in varying amounts up to $500.00 in any one year are available to deserving and needy students enrolled in the College of Medicine.

Scholarships for Occupational Therapy Students

Illinois Federation of Women's Clubs Scholarships. Established in 1944, this fund provides scholarships granted on the basis of financial need. Application may be made to the Dean of Admissions and Records, who is chairman of the committee which selects the candidates. Recommendations of the Dean of the College of Medicine are considered in

selecting candidates for the awards. Special consideration is given deserving applicants who are recommended by the Illinois Federation of Women's Clubs.

Women's Auxiliary of the Chicago Professional Colleges Scholarships. Established in 1951, this fund provides scholarships for students who have completed a portion of the curriculum offered in Chicago and who are in financial need.

Prizes for Medical Students

Beaumont Memorial Prize. The late Dr. Frank Smithies, of Chicago, endowed an annual prize in memory of William Beaumont, the famous surgeon of the nineteenth century. The prize is awarded by a committee to the student or faculty member of the College of Medicine who submits the best original work on diseases of the alimentary tract.

Borden Undergraduate Research Award. The Borden Company Foundation, Inc., has established a $500.00 yearly prize for the student in the graduating class who during any year while enrolled in the College of Medicine as a candidate for the Doctor of Medicine degree is judged to have performed the most meritorious piece of research. Originality and thoroughness of the research are of primary consideration.

Sigma Xi Prize. A prize of $25.00 is awarded annually by the Society of Sigma Xi for the best piece of scientific investigation on the part of any student in the College of Dentistry, the College of Medicine, or the Chicago departments of the Graduate College, who is without a salaried appointment by the Board of Trustees of the University.

Loan Funds for Medical Students

Several loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses. Information concerning these funds and the regulations governing loans may be obtained from the office of the Dean of Student Affairs.

Emergency Loan Fund. Emergency loans are made to students in the College of Medicine from a fund established by students and staff members and from general University loan funds.

Long-Term Loan Fund. Long-term loans are limited to $500.00 for any one year and a maximum of $1,000.00 while a student is attending the University of Illinois College of Medicine. Long-term loans bear interest at the rate of three per cent from the date of the loan to maturity.

Chicago Memorial Hospital Women's Auxiliary Loan Fund. This fund, established in 1955 by a gift from the Women's Auxiliary of the Chicago Memorial Hospital, is for loans to needy and qualified students in the College of Medicine.

Poncher Foundation Fund. A revolving loan fund created by friends of Dr. Henry George Poncher, former Professor and Head of the Department of Pediatrics at the University of Illinois College of Medicine, provides loans up to $1,000.00 with liberal repayment privileges after the period of medical training is completed. Loans are limited to qualified junior or senior premedical students and medical students.

LECTURESHIPS

Bacon Lectureship. In 1927, when Dr. Charles S. Bacon, on reaching the retiring age, was made Professor of Obstetrics, *Emeritus,* members of the faculty and friends of Dr. Bacon contributed the sum of $5,000.00 to found the Charles S. Bacon Lectureship in Obstetrics. The income from this fund is used to defray expenses of lectures given each year at the College of Medicine.

Davis Lectureship. The inauguration of the D. J. Davis Lectureship on Medical History was held on October 15, 1943. These lectures are maintained by interest on the funds subscribed by friends and associates of Dr. Davis, Professor of Pathology and Dean of the College of Medicine, *Emeritus,* who served the University for thirty years.

Gehrmann Lectureship. In 1924, in accordance with the will of Mrs. Albertina Gehrmann, widow of Dr. Adolph Gehrmann, for many years Professor of Bacteriology and Hygiene in the College of Medicine, the sum of $10,000.00 was given for the support of an annual lectureship in memory of Dr. Gehrmann.

Hedblom Lectureship. In 1938 the Phi Beta Pi medical fraternity contributed a fund to establish an annual lectureship in honor of Dr. Carl Hedblom, who until his death was Professor of Surgery and Head of the Department. Dr. Hedblom had an international reputation in the field of chest surgery.

Irish Lectureship. In 1946 the Eta Chapter of Alpha Kappa Kappa fraternity endowed an annual lectureship as a memorial to the late Head of the Department of Pediatrics, Dr. Henry Irish.

ORGANIZATIONS

Alumni Association of the College of Medicine

PRESIDENT: Carl A. Hedberg '26, 2051 North Sedgwick Street, Chicago 14.

PRESIDENT ELECT: Jerry Kearns '27, 3432 Jackson Boulevard, Chicago 24.

FIRST VICE-PRESIDENT: W. Francis Jacobs '34, 4051 West North Avenue, Chicago 39.

Statue of Apollo in the Central Court of the Campus of the Chicago Professional Colleges. Erected in 1946, this statue commemorates the founding of Alpha Omega Alpha, medical honor society, on this campus in 1902.

Necrologist and Second Vice-President: Walter Simmonds '14, 224 South Marion Street, Oak Park, Illinois.

Secretary-Treasurer: George W. Moxon, '26, 2416 North Neva Avenue, Chicago 35.

Alpha Omega Alpha

The international honorary medical fraternity Alpha Omega Alpha was founded at the College of Medicine in 1902. High ranking students in the third and fourth years are eligible for election to membership.

Faculty Adviser: Nicholas J. Cotsonas.

Phi Mu Phi

Phi Mu Phi is an honorary musical fraternity open to students of the Chicago Professional Colleges who take an active part in the musical organizations.

Faculty Adviser: Dean S. Rossett.

Pi Kappa Epsilon

Pi Kappa Epsilon is a national honorary medical fraternity to which members are elected on the basis of character, personality, and professional qualities.

Faculty Advisers: Warren H. Cole and Hugo O. Deuss.

Sigma Xi

In 1928 the Society of Sigma Xi granted a charter for the organization of a chapter of this society at the College of Medicine. Its object is the promotion of research.

PLAN OF INSTRUCTION

The program of the student during his four years in the College of Medicine is arranged according to the plan shown on page 32.

During the first two years the curriculum provides for study of the fundamental medical sciences, including anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. Throughout these courses, emphasis is placed upon correlation and integration. Didactic or lecture-type instruction is kept at a minimum. Weekly correlation conferences are held. While these exercises are conducted by panels of faculty members, student participation is encouraged. Clinical application of basic science information is presented as frequently as possible. Clinical

instructors frequently participate in the teaching programs in the basic science departments. To provide the student with an appreciation of the importance of personal factors in clinical medicine, the Department of Psychiatry presents instruction during the first two years as an introduction to subsequent clinical instruction. Instruction in physical diagnosis is offered throughout the second year.

The third and fourth years are devoted to the study of clinical subjects. The teaching is carried on almost exclusively in clinical clerkships in the University hospitals and affiliated hospitals and outpatient departments. The clerkships provide an opportunity for the student to examine and observe patients under supervision. Students are taught in small groups (five to six).

Instruction during the third year emphasizes the application of basic sciences to clinical medicine; the foundation for a fundamental approach to diagnostic study and management of patients is developed. The students are assigned as clinical clerks to the wards of the Research and Educational, Cook County, Presbyterian-St. Luke's, West Side Veterans Administration, and other hospitals. During this period they spend six weeks in pediatrics, six weeks in obstetrics, and twelve weeks each in medicine and surgery.

In the fourth year the emphasis is on the practical application of the fundamental concepts acquired throughout the preceding three years. In the clinics and wards the student is given more responsibility although supervision is continued. The student has two six-week clerkships: obstetrics and gynecology, and pediatrics. There are two twelve-week clerkships, one in general surgery and one in medicine. During the fourth year, each student is required to attend for three full quarters. A limited number of students may register for a clerkship in the summer quarter.

The surgical and medical clerkships provide for instruction and clinical experience in related special fields. Thus, the surgical clerkship includes orthopaedic, plastic, oral, urologic, neurologic, otorhinologic, ophthalmologic, and vascular surgery; the medical clerkship provides for instruction in psychiatry, neurology, radiology, hematology, gastroenterology, cardiogy, and dermatology. Related institutions such as the Intensive Treatment Center for venereal diseases, LaRabida Jackson Park Sanitarium for rheumatic fever, and the Municipal Contagious Disease Hospital are all utilized advantageously for teaching purposes.

A correlation and comprehensive examination which includes the Part I (for sophomores) and Part II (for seniors) examinations of the

National Board of Medical Examiners is given at the end of the sophomore and senior years in the College of Medicine. Students are not admitted either to the sophomore or senior correlation and comprehensive

FIRST AND SECOND YEARS

Subjects	First Quarter		Second Quarter		Third Quarter		Total Clock Hours
	Didactic	Laboratory	Didactic	Laboratory	Didactic	Laboratory	
FIRST YEAR							
Anatomy (Gross)	26	55	26	55	24	50	236
Histology	26	55	26	55	0	0	162
Neuroanatomy	0	0	0	0	24	50	74
Biological Chemistry	35	55	35	55	0	0	180
Integration and Correlation	16½	0	16½	0	16½	0	49½
Physiology	35	55	37	44	32	50	253
Psychiatry	12	0	12	0	11	0	35
Emergency Surgery	11	0	11	0	10	0	32
Total	161½	220	163½	209	117½	150	1021½
SECOND YEAR							
Examination of the Patient	10	33	10	33	5	33	124
Microbiology	35	68	24	46	0	0	173
Pathology	46	74	46	74	42	68	350
Pharmacology	23	0	34	33	31	20	141
Preventive Medicine	8	0	5	0	11	0	24
Psychiatry	12	0	12	0	0	0	24
X-ray	0	0	0	0	10	0	10
Correlation	22	0	22	0	20	0	64
Total	156	175	153	186	119	121	910

THIRD AND FOURTH YEARS

Subjects	Third Year	Fourth Year
MEDICINE CLERKSHIP SERVICE Includes the following specialities: Dermatology Internal Medicine Sociology and Jurisprudence Neurology Pathology, Autopsies Psychology Public Health Therapeutics	12 weeks	12 weeks
SURGICAL CLERKSHIP SERVICE Includes the following specialities: Anesthesia Anatomy, Topographic Neuro-Surgery Ophthalmology Orthopaedics Otolaryngology Roentgenology Surgery Urology	12 weeks	12 weeks
OBSTETRICS AND GYNECOLOGY	6 weeks	6 weeks
PEDIATRICS	6 weeks	6 weeks

examinations unless they have passed all of the departmental requirements for the first and second years and the third and fourth years respectively.

The sophomore correlation and comprehensive examination must be passed in order to enter the third year and the senior correlation and comprehensive examination must be passed to be eligible for graduation.

COURSES OF INSTRUCTION

The following list of courses is in alphabetic order of departments. Names of staff members in each department are listed by rank. The courses offered in each department are listed numerically. In the description of each course the letters F, W, Sp, and S indicate the fall, winter, spring, and summer quarters, and the periods of time required each week apply to the whole quarter unless the number of weeks is stated. Credit is calculated in clock hours.

ANATOMY

Professors: Reynolds (Head of Department), Cooper (*Emeritus*), Kampmeier (*Emeritus*), Simer, von Bonin, Zimmermann.

Associate Professors: Joranson (*Emeritus*), Krehbiel, Plagge, Zechel.

Assistant Professors: Casella, Cipolla, De Feo, Khedroo, A. LaVelle, MacRae, Monsen, Vicari.

Research Associates: F. LaVelle, Levy, Vollman.

Instructors: Maibenco, Rebhun, Treciokas.

Research Assistant: Smoller.

The course in anatomy is offered in the fall, winter, and spring quarters of the freshman year. It includes gross anatomy (301) which continues throughout the year, microscopic anatomy (302), including embryology, during the first two quarters, and neuroanatomy (303) in the final quarter. In each of these courses the essential morphological features and characteristics of the human body are emphasized, developmental concepts are stressed, and attention is given to situations in which morphological and functional interdependence is prominent. An attempt is made to emphasize the developmental and ever-changing aspects of living structures at different phases of life, although most emphasis is necessarily laid upon the adult human organism.

The course consists for the most part of four hour lectures a week followed by laboratory periods of two and one-half hours dissection or microscopic study of tissues. Throughout the course an attempt is made to so integrate and synthesize the material that the student sees that growth and development

represent life processes, and that these are, therefore, intimately related to the courses of the medical curriculum which follow, especially to pathology, medicine, and surgery.

The department shares responsibility with other basic science departments, cooperating with appropriate clinical departments, in a one and one-half hour weekly correlation course of study. This runs throughout the year. It is designed to cut across boundaries of the classical disciplines of anatomy, physiology, and biochemistry in order to provide an opportunity for students to obtain a glimpse of the horizons of knowledge which lie ahead, not yet in text books, or which remain to be discovered.

The Department of Anatomy offers certain elective courses for those medical students who, with an aim toward research, wish more extended opportunity for study in this basic science. Arrangements for such courses must be made on an individual basis with the staff.

For anatomical courses offered in the College of Dentistry and in the Graduate College, refer to the appropriate catalogs.

Required Courses — First Year

301. Human Gross Anatomy. Dissection of the human body, consideration of development of organ systems, X-ray anatomy. 260 hours; continuous through F, W, and Sp. Krehbiel, Monsen, Plagge, Reynolds, Simer, von Bonin, and others.

302. Human Histology. Microscopic study of the tissues and organs, histogenesis, placentation, early embryonic development. 178 hours; continuous through F and W. De Feo, A. LaVelle, MacRae, Rebhun, Reynolds, Zimmermann, and others.

303. Human Neuroanatomy. Gross and microscopic structure, development of the central nervous system. 88 hours; Sp. De Feo, A. LaVelle, Rebhun, Reynolds, von Bonin, Zimmermann, and others.

Elective Courses

306. Cytology. Consideration of the structure of cells as revealed by cytochemical methods; application of phase microscopy and electron microscopy to cytology. Four hours each week; F or S.

310. Microscopic Technic. Preparation of tissues for study; methods of maceration, decalcification, injection, corrosion, preservation, fixation, embedding, sectioning, staining, clearing, mounting, etc. Registration limited. To be arranged; F. Staff.

BIOLOGICAL CHEMISTRY

Professors: Winzler (Head of Department), Bergeim, (*Emeritus*), Binkley, MacFadyen.

Associate Professors: Abood, Horwitt, Rafelson.

Assistant Professors: Bonting, Jeffay, Johnson, Kohn, Myers, Stewart, Sky-Peck.

Research Associates: Hayashi, Panos, Shapira, Tepper.

Research Assistants: Bornstein, Dmuchowski, Inouye, Krakow, Mayer, Placek, Wells.

Biological chemistry is a science in which the fundamental knowledge of the various branches of chemistry (analytical, inorganic, organic, and physical), physics, and biology are combined to seek a better understanding of the chemical constitution and processes of the living organism. The subject has two general aspects which extend the sciences of anatomy and physiology into the realm of the invisible: chemical structure is anatomy at the molecular level; the study of the chemical processes of the living organism is physiology at the molecular level.

The three-quarter course (fall, winter, and spring quarters of the first year) in biological chemistry required of all students in the College of Medicine emphasizes the chemical and biological principles involved in living processes with as much integration with the other preclinical sciences (anatomy, bacteriology, pathology, pharmacology, and physiology) and clinical sciences as seems feasible at this stage of medical education. A foundation is laid upon which the student can and must build as other subjects are studied, if the full benefits of chemistry to clinical medicine are to be obtained. Stated in more detail, the course has four principal objectives: (1) to teach students to think in terms of chemistry about physiological processes and changes; (2) to develop an appreciation of quantitative thinking and action; (3) to develop technical skill; (4) to familiarize students with some of the more important clinical chemical methods and the interpretation of the data thereby obtained.

Opportunities are offered, to the extent that facilities are available, for advanced study and research for those students who wish further knowledge and experience in this field. Such students should consult the department for further information.

Required Courses — First Year

301-302-303. Biological Chemistry. Chemistry of the constituents of tissues and body fluids, and current methods for their qualitative and quantitative determination; digestion, absorption, and intermediary metabolism of lipids, proteins, and carbohydrates in health and disease, and the role of hormones, vitamins, and enzymes in the regulation of these processes; the application of this knowledge to the problems of disease. Lectures, conferences, and laboratory. Four hours each week, F and W; seven hours each week, Sp. Staff.

CLINICAL SCIENCE

Professor: Ivy (Head of Department).

Assistant Professors: Johnson, Lin.

Research Associates: Gordon, Grant, Hwang, Stevens.

Assistant: Karvinen.

Clinical science is a branch of medical science which seeks answers to the problems of the cure and prevention of disease by applying a multilateral approach. Observations and experiments are made on living men as well as dead men, on man as well as animals, and at the bedside as well as in the laboratory. For undergraduates, instruction in physiology of symptoms is presented in conjunction with correlation conference exercises. The graduate teaching program includes a large research program on a variety of subjects, using the broad approach indicated above.

DERMATOLOGY

Professors: Rostenberg (Acting Head of Department), Cornbleet, Ebert (*Emeritus*), Mitchell (*Emeritus*), Weber.

Associate Professors: Finnerud, Neuhauser, Shellow, Slepyan, Weichselbaum.

Assistant Professors: Becker, Falk, Griffith, Haeberlin, Robin, Szymanski, Tavs.

Associate: Hetreed.

Instructors: Barsky, Bielinski, Derbes, Pearl, Rubin, Spinka, Vander Laan, Williams, Yaffe.

Assistants: Brennan (on leave of absence), Fleming, Medansky, Schmerold.

Diseases of the skin comprise a high proportion of the cases seen by many physicians. To acquaint the student with the many disorders that may affect the skin, the subject of dermatology is taught throughout the junior year.

Some cutaneous disorders, such as tumors or contact-type dermatitis, are local in nature. Others may be cutaneous windows shedding light on some underlying systemic diseases. It is important that all physicians, general practitioners and specialists alike, become familiar with these cutaneous clues as diagnostic aids in the search for internal disease.

A course of didactic lectures covering the most common diseases of the skin is given during the junior year. Emphasis is placed on the diseases most likely to be seen in practice and on those having systemic significance. Consideration is also given to the diagnosis and treatment of various types of industrial dermatitis and to the preventive measures that are available. Colored lantern slides both of clinical cases and of histopathologic sections are used extensively as visual aids.

The student spends an additional fifty-two hours in the outpatient clinic during which time he sees cases of all the diseases available during the four weeks he is in attendance. He is also taught many of the laboratory methods needed for diagnosis and some of the operative procedures used in treatment.

It is the aim in presenting this course to equip the student by the end of his junior year to recognize the most common dermatoses, to be familiar with the cutaneous aspects of systemic diseases, and to be able to administer and prescribe treatment intelligently.

Required Courses — Third Year

350. Lectures on Dermatology and Syphilis. Lectures, lantern slides, and demonstrations. One hour each week; F, W, and Sp. Ebert, Neuhauser, Tavs, Weber.

351. Dispensary. Given in conjunction with Dermatology 350. Two two-hour and two three-hour periods each week for four weeks, and one hour each week for twelve weeks; F, W, and Sp. Barsky, Becker, Cornbleet, Falk, Griffith, Haeberlin, Robin, Rostenberg, Shellow, Slepyan, Szymanski, Weichselbaum.

MEDICINE

Professors: Dowling (Head of Department), Abramson, Alvarez (*Emeritus*), Arkin (*Emeritus*), S. H. Armstrong, Birch, Campbell, Eyerly, Fishbein (*Emeritus*), E. F. Foley, Freilich (*Emeritus*), Hibbs (*Emeritus*), Hick, Hoffman (Lecturer), E. E. Irons (*Emeritus*), Kark, F. B. Kelly, Lueth, Pfuetze, W. E. Post (*Emeritus*), Rappaport, Sloan, S. Strauss (*Emeritus*), Thomas, VanderKloot.

Associate Professors: Afremow, Baker, Barton, A. Bernstein, Capps, Cotsonas, Feldman, Fischer, Franklin, B. Goldberg (*Emeritus*), Gray, Jackson, Kendrick, Knight (*Emeritus*), Lendrum (on leave of absence), Lichtenstein, Limarzi, Lundy, Lusk (*Emeritus*), Montgomery, Moske, J. T. Paul, O. Paul, Perlstein (*Emeritus*), Pilot, Rabens (*Emeritus*), Roberg, Rosenblum, Samter, Saphir, Schwartz, Sheaff (*Emeritus*), Spellberg, Steigmann, Stuppy, S. G. Taylor III, Traut, Trimmer, Wood.

Assistant Professors: Akre, Amtman (*Emeritus*), Baumeister, Bedinger, Berg, Berryman, Best, Bliss, Brebis, Breuhaus, R. G. Brown, H. L. Browns, Byfield, Calloway (Lecturer), Colbert, Creticos, Dakin, Darling, Deuss (Lecturer), Ehrlich, Franzblau, Gardiner (*Emeritus*), Goldwasser (*Emeritus*), Graettinger, Gunther, Hall, Heller, Hilkevitch (*Emeritus*), Horwitz, E. N. Irons, Janson, Kellow, Kesler, Kinney, Korn, Krasnow, Laing, Lawrence, Levitt, H. A. Levy, W. C. Lewis,

Littman, McMillan, Mehlman, Necheles, Nelson, B. Pearlman, L. Perlman, Polley, J. Post, Prec (Lecturer), Presley, Ranke, Ravenna, A. H. Rosenblum, Sapienza, Schick, Schoenberger, Siglin, Steck, E. K. Straus (Lecturer), Trobaugh, Vance, Weisberg, Willoughby, Wilson (*Emeritus*), Wolf, Wolter, Yellen, Zivin.

Associates: Baird, Ball, L. M. Bernstein, Coogan, Galt, Grosz (*Emeritus*), Hedblom, R. N. Hedges, Hoeppner, Kirby, Nalefski, Roskelley, A. W. Smith, Steinberg, Wakefield, J. L. Williams (*Emeritus*).

Research Associates: Anderson, Pollak, Stamps.

Instructors: Anast, B. E. Armstrong, Baldwin, Ballard, Becker, Beers, Beinar, Bennett, Bessinger, Boesen, Breitzer, Brixey, Bronsky, Carton, Casas, Chertack, Cirzan, Cohen, Davis, DeJong, H. D. DeYoung, Edgren, Farago, Feinhandler, Felix, Fisherman, Fitzpatrick, B. W. Fox, R. E. Fox, Foxworthy, Frenster, Freud, Freund, Gantt, Gianasi, Goldmann, Greenspan, Grieble, Grimelli, Gunnar, Gurvey, Hand, Hunter, Iglitzen, Jamieson, Johnston, Kaplan, Kassriel, Kelly, Kirkland, Klein, Kofman, Koik, Lee, Louis, Mamby, Maslow, Matlin, Mayer, McNeil, Meredith, Muehrcke, Muenster, Neal, Newman, O'Brien, Oden, Ohringer, Perlia, Phelan, Poirier, Poske, Prestipino, Pulos, Pyle, Rapp, Rashin, Remenchik, Rhetta, Romano, Ruggie, Salberg, Scala, Schlesinger, Schnaer, Schoolman, Schwied, Scupham, Shafter, Sluzynski, N. E. Smith, Snapp, Somberg, Stone, J. F. Strauss, Jr., Tarun, Thrift, Timblin (*Emeritus*), Vil, Vondrasek, Weiss, West, J. Williams, Wiss, Wolfe, Yonan, Zvetina.

Assistants: Albala, Aronson, Darling, David, Davis, Dedmon, Detweiler, DiGilio, Economou, Edidin, Farnes, Fine, Fishman, Flanagan, R. A. Foley, Fruin, Gailitis (on leave of absence for military service), Garr, Golinkin, Green, Hayes, R. N. Hedges, Jr., Herting, Highstone, Hirsch, A. W. Holmes, Jr., F. W. Jones, P. N. Jones, Kaganiec, Katz, Kerrihard (on leave of absence for military service), E. Krasnow, Kukral, Kulis, Lam, J. P. Lewis, Lowe, Mann, Markelz, Medenis, A. D. Meyer, M. M. Meyer, Morrison, Neuhaus, Nora, Parsons, Price, Rosset, Ryan, Schuessler, Shields, Shrifter (on leave of absence for military service), C. Smith, Starr, Tausk, Toigo, Twiss, Warner, Zolot.

Research Assistants: Adatto, Cherniack, Conner, Hasegwa, Jensen, McClain, Mellody, Rix, Rubenis, Seketa.

The Department of Medicine guides the student in the application of the basic medical sciences to the clinical skills of the recognition, alleviation, and prevention of disease. Disease may be defined as any abnormality impairing the adaptation of the individual to his particular environment. The study of disease by this Department is no longer an isolated consideration of the abnormalities of organs and of systems. The consideration is now that of the patient as an individual, a person reacting to disease according to his unique

constitution. The patient and his reaction to the disease are, in turn, influenced by his physical, occupational, and social environment. In order to understand these variable actions of, and reactions to, disease, the Department of Medicine: (1) gives the student certain facts which are essential to understanding, and (2) encourages the student to inquire after facts and to group the facts into a systematic body of knowledge which will expand continuously with further experience.

In the sophomore year the student learns the methods for the complete evaluation of the patient: the interview, the history of the illness, the physical examination, and the essential laboratory studies.

In the junior year the student studies the natural history of disease as it occurs in patients within the hospitals. Under the guidance of an attending physician, the student gains experience in eliciting histories and in performing physical examinations, and is advised on the proper recording and presenting of the patients' histories. The student presents certain case histories to the attending physician during ward rounds, and gives similar presentations at informal clinics and seminars which are held several times each week. There are two lectures each week for the entire class which cover the major diseases within the field of internal medicine. These supplement the students' textbook and collateral reading.

In the senior year the clinical clerkship is continued on the hospital wards and in the outpatient departments. His responsibilities and studies are now more advanced, and he is a member of the medical team along with the house officers and attending physicians who render medical care. The student participates in seminars and conferences in relation to his patients.

Required Courses — Second Year

325. Physical Diagnosis. Instruction in the physical examination of the patient. Normal findings are emphasized and are compared to patients with abnormal findings. Small sections and a large clinic and demonstration period are held three hours a week; continuous through F, W, and Sp. Instructors in general surgery and its subspecialties, in obstetrics and gynecology and such specialty departments as ophthalmology and otolaryngology cooperate with the Department of Medicine. An additional two hours a week during spring quarter are devoted by the Department of Psychiatry of instruction in interviewing of patients. Adatto, Ballard, Brixey, Bronsky, Byfield, David, Detweiler, DiGilio, Edidin, Foxworthy, Frenster, Fruin, Golinkin, Grimelli, Hand, Jamieson, P. N. Jones, Kaganiec, Kaplan, Kark, Kofman, E. Krasnow, Kukral, Markelz, McNeil, Muehrcke, Nalefski, Nora, Phelan, Pollak, Polley, Poske, Price, Rosenblum, Roskelley, Rosset, Scupham, Shafter, Somberg, Starr, Toigo, and others.

Required Courses — Third Year

350. Systematic Study of Important Diseases. Lectures covering the major diseases in the field of internal medicine. Two hours each week; continuous through F, W, and Sp. L. M. Bernstein, Berryman, Best, Birch, Bliss, Carton, Dowling, Feldman, Heller, Jackson, Kellow, Lichtenstein, Littman, Montgomery, Paul, Roberg, Samter, Schwartz, Spellberg, Wood.

354. Bedside Teaching Clerkship. Cook County Hospital and West Side Veterans Administration Hospital. Students are directed in their work by the associates and attending men of these hospitals. Twenty-seven hours each week; F, W, and Sp. Afremow, Becker, A. Bernstein, Breitzer, Browns, Cohen, Colbert, Cotsonas, Feldman, Fischer, Fox, Franklin, Galt, Goldmann, Greenspan, Gunnar, Hand, Heller, Horwitz, Kinney, Korn, S. Krasnow, Lawrence, Lee, Littman, Mamby, Maslow, Mayer, Montgomery, Neal, B. Pearlman, Perlman, Pilot, Pulos, Rosenblum, Salberg, Saphir, Sapienza, Schoolman, Schwied, N. E. Smith, Somberg, Steigmann, Thrift, Traut, Weisberg, Yellen.

Required Courses — Fourth Year

377. Outpatient Clerkship. Research and Educational and Presbyterian-St. Luke's Hospitals. One-sixth of class. Eighteen hours each week for six weeks; F, W, and Sp. Akre, B. E. Armstrong, Baird, Baldwin, Barton, Baumeister, Beers, Beinar, Bennett, Berg, Berryman, Bessinger, Best, Boesen, Brebis, Breuhaus, R. G. Brown, Browns, Campbell, Carton, Chertack, Cirzan, Colbert, Cotsonas, Creticos, Dakin, Darling, Dedmon, DeJong, DeYoung, Dowling, Economou, Edgren, Ehrlich, Eyerly, Farnes, Feinhandler, Feldman, Felix, Fisherman, Fitzpatrick, Flanagan, R. A. Foley, B. W. Fox, R. E. Fox, Freud, Freund, Gantt, Gianasi, Graettinger, Gray, Green, Grieble, Gunther, Gurvey, Hayes, Herting, Hick, Holmes, Hunter, Iglitzen, Irons, Jackson, Johnston, Kark, Kassriel, F. B. Kelly, F. B. Kelly, Jr., Kesler, Kirby, Kirkland, Klein, Kofman, Koik, Kulis, Levitt, Levy, J. P. Lewis, W. C. Lewis, Louis, Lowe, Lundy, Matlin, McMillan, Mehlman, Morrison, Moske, Muehrcke, Muenster, Necheles, Nelson, Neuhaus, Newman, O'Brien, Oden, Ohringer, Ostfeld, Parsons, J. T. Paul, O. Paul, B. Pearlman, Perlia, Phelan, Poirier, Pollak, J. Post, Presley, Prestipino, Pulos, Pyle, Ranke, Rappaport, Rashin, Ravenna, Remenchik, Rhetta, Roberg, Romano, Rosenblum, Ryan, Samter, Scala, Schick, Schlessinger, Schnaer, Schoenberger, Schwartz, Siglin, Sluzynski, Somberg, Spellberg, Steck, Steigmann, Stone, Straus, J. F. Strauss, Jr., Stuppy, Tarun, Taylor, Thomas, Traut, Trimmer, Trobaugh, Vance, Vil, Vondrasek, Warner, Weiss, Williams, Wiss, Wolfe, Wood, Yonan, Zivin, Zvetina.

378. Clerkships. Presbyterian-St. Luke's and Research and Educational Hospitals. Minimum of thirty-nine hours each week for six weeks; F, W, and Sp. Additional time may be required at the discretion of the chief of the medical service to which the student is assigned. Akre, Baldwin, Barton, Baumeister, Bedinger, Bennett, A. Bernstein, L. M. Bernstein, Best, Birch, Bliss, Boesen, Brebis, Breuhaus, Brown, Byfield, Campbell, Carton, Colbert, Cotsonas, Darling, Dedmon, DeYoung, Dowling, Economou, Eyerly, Farnes, Feldman, Felix, Fischer, Flanagan, E. F. Foley, R. A. Foley, Franklin, Franzblau, Freud, Goldmann, Graettinger, Gray, Green, Hall, Heller, Hick, Holmes, Hunter, Irons, Jackson, Johnston, Kark, Kellow, F. B. Kelly, F. B. Kelly, Jr., Kesler, Kinney, Kirby, Kirkland, Kofman, Korn, Krasnow, Lepper, Lewis, Littman, Lowe, Lundy, Mehlman, Montgomery, Muehrcke, Muenster, Nelson, O'Brien, Ostfeld, Parsons, J. T. Paul, O. Paul, Pollak, Post, Ranke, Rashin, Remenchik, Roberg, Ruggie, Ryan, Samter, Saxton, Schick, Schoenberger, Schwartz, Siglin, Steigmann, Straus, Stuppy, Tarun, Taylor, Thomas, Traut, Trimmer, Trobaugh, Vance, Walter, Warner, Wiss, Wolfe, Wolter, Wood.

Required Courses — Occupational Therapy Students

324. Lectures on Medical Conditions. Lectures and clinics in medicine for occupational therapy students. Twelve hours of lecture and twelve hours of clinic; Sp. Beers, Birch, Fisherman, R. E. Fox, Grieble, Korn, Ranke, West, Zivin.

MICROBIOLOGY

Professors: Novak (Head of Department), Kempf.

Associate Professors: Meyer, Vicher.

Assistant Professors: Forster (Lecturer), LeBeau, Markowitz, Pumper, Scherr.

Instructors: Bahn, Brown, Hubble (Lecturer), Kroeger, Sibal.

Assistant: Knoll.

The course in microbiology is offered during the first and second quarters of the second year. Instruction is based upon a study of fundamental principles involving morphology, physiology, and distribution of bacteria and related organisms. Following a brief study of representative members of nonpathogenic and useful species, the student is introduced to the study of harmful bacteria and the nature of the diseases which they produce, together with antibiotic concepts and immunological and serological considerations. Pathogenic fungi, rickettsia, and viruses are included in this beginning course, as well as organisms responsible for tropical diseases. Special emphasis is placed on the ubiquitous nature of

bacteria so that the student can more readily comprehend epidemiological problems and the host-parasite relationship in subsequent courses. Laboratory, diagnostic, and other practical procedures are stressed, as well as the interpretation of laboratory results in the light of other clinical evidence. During the second quarter, hospitalized patients with typical bacteriological entities are presented as diagnostic problems, and demonstrations are conducted emphasizing important historical data and the need for further laboratory studies. The taking from patients of specimens for bacteriological analysis by proper aseptic technique is demonstrated. Completion of an individual project by each student is required.

Undergraduate courses in bacteriology are also offered to dentistry, occupational therapy, nursing, and pharmacy students.

A full program of graduate work, including individual courses in virology, cytology, mycology, immunology, and immuno-chemistry, is offered to medical students who can qualify for graduate work leading to the M.S. or Ph.D. degree. Complete descriptions of courses and requirements for registration of medical students for concurrent work toward a graduate degree in bacteriology are contained in the Graduate College catalog. Properly qualified medical students are encouraged to gain experience in the field of research through pursuit of graduate studies and to discuss these possibilities with members of the bacteriology staff.

Required Courses — Second Year

325. Bacteriology and Related Microbiology. A study of the general morphology, metabolism, serology, and pathogenicity of the important microbial agents of communicable diseases; action of germicidal agents, sulfonamides, penicillin, streptomycin, and other antibiotics; factors in parasitic offense and mechanisms of host defense. Detailed consideration of pathogenic bacteria. Three lectures and six hours of laboratory each week; F. Novak and others.

326. Bacteriology and Related Microbiology. Continuation of Bacteriology 325. Detailed consideration of intestinal pathogens, water and milk sanitation, anaerobes, viruses, pathogenic fungi, protozoa, spirochetes, rickettsia, and other microbial agents of disease. Serological methods and routine hospital laboratory procedures applicable to diagnosis of communicable diseases. Two lectures and four hours of laboratory each week. W. Kempf and others.

Required Courses — Occupational Therapy Students

324: General Bacteriology. General aspects of bacteriology and immunology including emphasis on preventable aspects of communicable diseases. This course is designed entirely for the needs of occupational therapy students. Three lectures and three hours of laboratory each week for four weeks; F. Vigher.

NEUROLOGY AND NEUROLOGICAL SURGERY

Professors: Oldberg (Head of Department), Avery, Bailey, F. A. Gibbs, Gustafson, Lichtenstein, Mackay.

Associate Professor: Sugar.

Assistant Professors: Arnold, Diamond (*Emeritus*), Garvin, Haase, Textor.

Associate: Zolt.

Research Associates: Mason, Stamps.

Instructors: Johnson, Metrick, Rosenbluth, Sorum.

Assistants: Allen, Geglian, Jones, Livesay, Manfredi.

Research Assistants: E. L. Gibbs, Rich.

Neurology and neurological surgery are the sciences having to do with the diagnosis and treatment of organic medical and surgical conditions affecting the central and peripheral nervous system.

The teaching for undergraduate students in the College of Medicine includes six lectures on the fundamentals of the neurological examination. These are incorporated into the course in physical diagnosis conducted by the Department of Medicine. Instruction in the junior year embraces the fundamentals of neurology, including the complete neurological examination of the individual, together with the interpretation of the abnormal findings which exist when various parts of the nervous system are affected. Lectures on the medical diseases affecting the nervous system, including their symptoms, course, pathological basis, and treatment, also are offered. In the senior year, instruction includes a course in clinical pathological correlation of the various processes affecting the nervous system and a course in the fundamentals of neurological surgery.

A portion (forty students) of the senior clinical clerkship under the direction of the Department of Medicine, is assigned to the neurology outpatient department in groups of six, for six weeks each.

Graduate work is also offered in neuropathology and clinical neurology.

Required Courses — Third Year

350. Fundamentals of Neurology. A correlation of the anatomy, physiology, pathology, and clinical examination of the nervous system. One hour each week; F. Lichtenstein, Sugar.

351. Neurology Clinic. Systematic lectures and clinical demonstrations of the principal diseases of the nervous system. One hour each week; W and Sp. Garvin, Lichtenstein, Mackay.

Required Courses — Fourth Year

375. Neurology Clinic. Lectures and demonstrations of clinical cases. One hour each week; W. Bailey.

376. **Neurological Surgery.** Lectures and demonstrations of neurosurgical problems. One two-hour period each week; F. Twelve weeks for entire class. Oldberg.

377. **Dispensary.** Six two-hour periods each week; F, W, and Sp. Two weeks for each sixteenth of the class. Staff.

Required Courses — Occupational Therapy Students

324. **Neurological Conditions.** A review of anatomy and physiology of the nervous system; types of neuromuscular and sensory disturbances. Twenty hours a quarter; F and Sp.

OBSTETRICS AND GYNECOLOGY

Professors: Mengert (Head of Department), Allen, Boysen, Browne (*Emeritus*), Falls (*Emeritus*), Lash.

Associate Professors: Edwards, Freda, Klawans, Kobak, Priest, Rezek, Wolff.

Assistant Professors: Andresen, Baum, Benensohn, Boley, Carey, Daro, DeLee, Draa, Farley, FitzGibbons, Glenner, Hammond (*Emeritus*), Kaminetzky, Krause, Lang (*Emeritus*), Lifvendahl, Lobraico, Long, Mauzey, McClure, Peterson, Roos, Sered, Slate, C. O. Smith, Spiegel, Stone (*Emeritus*), Teton, Waddington, Walsh.

Associates: Beebe, Finola.

Instructors: Angell, Black, Burchell, Farmans, Gollin, Korkmas, Lavieri, Mouzakeotis, Mullen, Nyman, Oberhelman, Payne, Pill, Rutgard, Sampson, Sholder, Smith, Stone, Sylvester, Truchly, Vlasis, Wallheiser, Wiersma.

Assistants: Aimone, Bartels, Brophy, Capelli, Casal, Clark, Cozad, Dahlberg, Espinosa, Fahrenbach, Fallon, Irigoyen, Justema, Kahn, Kenwick, Kostelny, Marshall, Mason Jr., Oleck, Papatheodorou, Rosner, Sanders, Shoaf, Siegel, Sykora, Tolwinsky, Treadwell, Zummo.

The two divisions of this specialty are completely integrated and are presented to the student as a unit.

During the junior year, the major disease concepts are taught. Practical instruction is divided two weeks each on the obstetric wards, the gynecologic wards, and the outpatient clinic. Each junior student is expected to live in the hospital for one week of the clerkship period. During this week, he is on call for all events transpiring in the birth rooms. With the exception of six groups of four students each, assigned to clerkships at Presbyterian-St. Luke's Hospital, all students serve clerkships at Research and Educational Hospitals.

There is no didactic teaching in the senior year. With the exception of six groups of six students each, assigned to clerkships at Presbyterian-St. Luke's Hospital, all students serve clerkships at Research and Educational Hospitals. Practical instruction is divided two weeks each on the obstetric wards, the gynecologic wards, and the outpatient clinic.

Required Courses — Third Year

350. **Principles of Obstetrics and Gynecology.** The anatomy, physiology, and pathology of the female genital tract and the major disease concepts are presented in a series of integrated lectures. Entire class, one hour a week throughout the academic year; F, W, and Sp. Kaminetzky, McClure, Mengert, Slate.

351. **Panel Discussion.** Clinical entities, covering the entire field of obstetrics and gynecology, are presented weekly by a panel consisting of four men, three from the senior clinical staff and one selected from the class. Entire class, one hour a week throughout the academic year; F, W, and Sp. Clinical Staff.

352. **Clerkship.** Each one-sixth of the class spends six weeks on the obstetric-gynecologic service. The time is divided two weeks each on obstetrics, gynecology, and outpatient clinic. During one of the two weeks on obstetrics, the student lives in the hospital and is on call for all events transpiring in the birth rooms. This takes precedence over all other duties. The student also attends ward rounds, assists the senior clerks, and attends the courses listed below. Members of the clinical staff attend each of the three divisions of the department and give practical bedside and clinic instruction. Members of the resident staff are available at all times for practical instruction and discussion. Four junior students are detached each six weeks for a clerkship at Presbyterian-St. Luke's Hospital. During this period they spend their entire time at Presbyterian-St. Luke's Hospital. F, W, and Sp. Clinical Staff.

353. **Cook County Hospital Case Presentation.** Students in small groups are detached to attend weekly case presentation and demonstrations at Cook County Hospital. F, W, Sp. Lash.

354. **Ward Classes.** Teaching is done at the bedside using representative patients. Six hours a week during the junior clerkship; F, W, and Sp. Clinical Staff.

355. **Manikin.** The mechanics of the birth process are taught on the manikin. One hour a week during the junior clerkship; F, W, and Sp. Clinical Staff.

356. **Obstetric and Gynecologic Pathology.** Gross and microscopic specimens are studied and correlated clinically with the cooperation of members of the Department of Pathology. Two hours a week during the junior clerkship; F, W, and Sp. Hirsch, Kaminetzky, Slate, Swerdlow.

Required Courses — Fourth Year

375. **Clerkship.** Each one-sixth of the class spends six weeks on the obstetric-gynecologic service. The time is divided two weeks each on obstetrics, gynecology, and outpatient clinic. During the two weeks on obstetrics the student lives in the hospital. The student also attends all ward rounds and patient conferences of the department during his clerkship, unless actually engaged with a delivery or an operation. Otherwise, he serves as a junior house officer or clinical clerk and is responsible for histories, physical examinations under supervision, and the delivery of such normal patients as may be assigned to him. Each student should expect to deliver about ten women. During service on gynecology, he accompanies his patient to the operating room. Emphasis during the senior clerkship is placed on performance. Six senior students are detached each six weeks for a clerkship at Presbyterian-St. Luke's Hospital. During this period they spend their entire time at Presbyterian-St. Luke's Hospital. F, W, and Sp. Clinical Staff.

OPHTHALMOLOGY

Professors: Beard, Hughes, Kronfeld, Moncreiff.

Associate Professors: Apple, Fowler (*Emeritus*), Haas, Syndacker, Theobald (*Emeritus*), Zekman.

Assistant Professors: Wilder (Acting Head of Department), Clark, Feinberg, Folk, Fox, Herbst, Kirk, Maher, McDonald, McGarry, Mundt, Pearlman, Pushkin, Rosenberg, Schall, Scheribel, Stillerman, Urist.

Associates: Leech, Merz.

Instructors: Allen, Bayard, Benford, Cassady, Fitzgerald, Hatch, Henry, Iser, Jones, Juska, A. Lakritz, Lassiter, Light, Oleari, Perry, Schultz, Spiro, Tatar, Tresley, Walsh, Wood.

Assistants: Book, Brown, Carroll, Cation, Deutsch, Enrile, Firestone, Flick, Flynn, Johnstone, Kasner, L. Lakritz, Lazor, Letko, McCanna, Minier, Papal-Latoc, Russman, Smart, Tennenbaum, White.

The goal of instruction in ophthalmology is to enable the student to integrate the principles of basic science into the problems of ocular disease, to learn the technics of examination of the eye, to know the ocular manifestations of systematic disease, and to recognize the common ocular diseases likely to be encountered in general practice. Ophthalmology as a specialty is taught in postgraduate courses and during residency training.

During the third year, a series of lectures is presented, and multilithed notes are distributed to emphasize the important aspects of ophthalmology. During the fourth year, patients in the outpatient departments of ophthalmology

at the Research and Educational Hospitals, Illinois Eye and Ear Infirmary, Presbyterian-St. Luke's Hospital, and Illinois Central Hospital, are studied by the students and discussed with an instructor.

Required Courses — Third Year

350. **Didactic Instruction.** Illustrated lectures and multilithed notes covering diseases of the eye related to general systemic disease and ocular conditions commonly encountered in the general practice of medicine. One hour each week; Sp. Folk, Haas, Hughes.

Required Courses — Fourth Year

375. **Ophthalmology Dispensary.** Examination of dispensary patients, including visual acuity, external and slit lamp examinations, tonometry, ophthalmoscopy, and visual fields. Demonstrations of important ocular diseases. Two hours a day, four days a week, for two weeks; F, W, and Sp. Beard, Clark, Deutsch, Feinberg, Fitzgerald, Fox, Henry, Herbst, A. Lakritz, Lassiter, Maher, Merz, Mundt, Perry, Pushkin, Schall, Scheribel, Snydacker, Spiro, Tatar, Tennenbaum, Tresley, Wilder, Zekman.

376. **Seminar in Ophthalmology.** Clinical demonstrations and movies of the following subjects: trauma and minor surgery, glaucoma, motility, cataract, medical ophthalmology, neuroophthalmology. One and one-half hours a week for six weeks; F, W, and Sp. Folk, A. Lakritz, McDonald, Pearlman, Scheribel, Wilder.

ORTHOPAEDIC SURGERY

Professors: Ray (Head of Department), Hark, Lambert.

Associate Professors: Murphy (*Emeritus*), Scuderi.

Assistant Professors: Apfelbach, Eichelbaum, Fischer, Fox, Heck, Joffe, Lidge, Marshall, Miller, Shapiro, Turner.

Associate: Grimmer.

Research Associate: Sabet.

Instructors: Andrews, Cronin, Griffin, Meany, Novotny, Nyman, Pellicore, Rich, Robinson, Shafer, Varzino.

Assistants: Feiler, Gavin, Newman.

Research Assistant: Stevens.

Orthopaedics is that branch of medicine, the purposes of which are to prevent and correct deformity and to preserve and improve the function of the musculo-skeletal system and its associated structures. A wide variety of orthopaedic conditions manifest at all ages are available for observation, study, and

therapy in the outpatient department and in the hospital, thus providing students with a rare opportunity.

The aim of the teaching program is to give the student a basic knowledge of diseases and deformities as they affect the musculo-skeletal system, and the skills necessary to carry out an examination and to reach a diagnosis, as well as the fundamental principles of treatment, including the application of casts, braces, traction, medical management, and surgery. During the undergraduate years, emphasis is placed on the relationship between the basic sciences, the clinical aspects of orthopaedics, the other fields of medicine and surgery, and the ancillary services. During the junior year, the student receives instruction in fractures and general orthopaedic problems. During the senior year, the student spends two weeks on the Adult Service and two weeks on the Children's Service, where he has the opportunity to see firsthand many orthopaedic conditions, to scrub with the surgical team in the operating room, to assist in the application of traction and casts, and to follow cases on the wards and in the clinics. Special seminars are held during the clerkship on regional examination of the musculo-skeletal system, office orthopaedics, trauma, and rehabilitation. For interested medical students, special opportunity is also provided upon request to participate in the departmental research program.

Advanced work in the department is provided through residencies which qualify men as specialists in the field of orthopaedics.

Required Courses — Third Year

350. Clinical Orthopaedic Surgery with Demonstrations. Consideration of orthopaedic problems, including examination of the patient, differential diagnosis, and the general principles of treatment. One hour each week; F, W, and Sp. Ray and staff.

352. Introductory Course in Fractures. Cook County Hospital. One hour of lecture, one hour of case presentations. Two hours each week for twelve weeks; F. Scuderi and others.

357. Fractures. Cook County Hospital. Ward walks. One hour each week for twelve weeks; F, W, and Sp. Scuderi and others.

Required Courses — Fourth Year

376. Clerkship. Observation and study of orthopaedic cases, adult and children, together with practical demonstrations of orthopaedic conditions, ward rounds, seminars, surgical and outpatient procedures. F, W, Sp, and S. Ray and staff.

Required Courses — Occupational Therapy Students

324. Orthopaedic Conditions. A study of the musculo-skeletal system including the etiology, symptoms, and treatment of congenital abnormalities, growth

and metabolic disorders, injuries, infections, and tumors. Twelve lectures and twenty-four hours of clinic; F and W. Orthopaedic Staff.

OTOLARYNGOLOGY

Professors: Lederer (Head of Department), Hayden (*Emeritus*), Holinger, Hollender (*Emeritus*), W. Theobald (*Emeritus*), Van Alyea (*Emeritus*).

Associate Professors: Andrews, Cubert, Dalitsch, Friedberg, Johnston, Lewis, Lightfoot, Livingston, Morwitz (*Emeritus*), Pollock, Schoolman, Skolnik, Snitman, Soboroff, Wallner, Watkins (*Emeritus*).

Assistant Professors: Becker, Blumenthal, Buckingham, Chainski, Coombs, Dougherty, C. Elliott, Fabricant, Friedman, Greene, Henner, Horwitz, Leshin, Lewy, Satz, Savitt, Torok, Wojniak.

Associates: Blumklotz, Singh, P. Theobald.

Instructors: Bartlett, Breed, Dale, E. Elliott, Frasier, Gehrich, Hoeltgen, Jeantet, Kodros, Kowal, Kurth, Loewy, Mansueto, McCauley, O'Neil, Orrico, Plotkin, Ratko, Siedentop, Smiley, Springer, Weidemann, Yast.

Assistants: Aimi, Austin, Borkenhagen, deBlois, Ferrer, Guemmer, Gyorkey, Martin, Mozer, Panagopoulos, Perrelli, Pornoy, Razim, Shapiro, Sirugo, Underriner.

Otolaryngology concerns itself with the study of the normal and abnormal functions of the upper respiratory system, the upper digestive tract, and the special senses of speech, hearing, and olfaction. This includes the social, physiological, and physical aberrations present when malfunction affects any of these systems. The wide diversity of systems and regions studied lends itself to special emphasis placed upon divisions of the specialty, such as otology, rhinology, laryngology, bronchoesophagology, maxillofacial surgery, and audiology.

Otology, the study of the functions of the ear, not only has for its primary aim the diagnosis and treatment of diseases of the ear, but also the equally important facet of the social rehabilitation of the deaf and hard of hearing. So great are the social implications of disturbed speech and hearing that audiology forms an important division of otolaryngology. Bronchoesophagology concerns itself with direct visualization, diagnosis, and therapy of the esophagus, larynx, and tracheobronchial tree.

The primary aim is to teach the undergraduate to recognize disease or malfunction in these systems and to evaluate the method of arriving at a correct diagnosis so that therapy may be intelligently applied.

For the practicing otolaryngologist, courses are offered in bronchoesophagology and in current trends in otorhinolaryngology. Those desiring to specialize

in otolaryngology may enroll in a basic course designed to teach the principles and methods of the specialty. A sufficient number of residencies are available under departmental supervision to permit a four to five-year training period.

The department is divided into the following divisions: (1) otolaryngology, (2) bronchoesophagology, (3) speech and hearing rehabilitation, and (4) maxillofacial surgery, including neoplasms of the head and neck. The required course of study in these divisions is so arranged that didactic instruction precedes practical application of the specialty, emphasizing its relation to general medicine in a total person concept. Technics of physical examination of the ears, nose, and throat are taught in the second year. Then, as part of a pediatric clerkship in the third year, these diagnostic methods are given special emphasis with reference to clinical states in infants and children. In the fourth year, instruction is given in the basic principles of the specialty by lectures augmented by conferences in small groups, and through opportunities to apply the principles of diagnosis and treatment in outpatient clinics where the student is taught by direct contact with patients.

Required Courses — Fourth Year

375. **Surgical Clerkship.** Demonstration of diagnostic and surgical otolaryngologic problems current in hospital and outpatient cases are discussed with small groups of senior students. They are afforded personal observation and discussion concerning indications, preoperative and postoperative care, and follow-up. One hour a week for six weeks; F, W, and Sp. Lederer, Skolnik.

376. **Clinical Instruction in Ear, Nose, Pharynx, Larynx, and Sinuses.** Surgical anatomy, physiology, applied pathology, and treatment. One hour each week. F, The Ear: Buckingham, Cubert, Dale, Dalitsch, Kowal, Lederer, Lightfoot, Skolnik. W, The Nose and Paranasal Sinuses: Horwitz, Lederer, Skolnik, Soboroff. Sp, The Pharynx, Larynx, Tracheobronchial Tree, and Esophagus: Buckingham, Holinger, Johnston.

377. **Dispensary.** Research and Educational Hospitals. Six two-hour periods during two weeks; F, W, and Sp. Andrews, Bartlett, Blumenthal, Blumklotz, Coombs, Dale, Dalitsch, Greene, Holinger, Horwitz, Johnston, Kurth, Lederer, Lewis, Lewy, Livingston, Loewy, Mansueto, Savitt, Schoolman, Siedentop, Skolnik, Snitman, Torok, and others.

PATHOLOGY

Professors: Krakower (Head of Department), Bennett, Hass, King, Levinson, Milles, Pirani, Saphir, Weinmann.

Professorial Lecturer: Cahn-Bronner.

Associate Professors: Catchpole, Fuller, Grimm, Kearns, Learner, Mason, McGrew, Nedzel (*Emeritus*), Taylor.

Assistant Professors: Eshbaugh, Floberg (Lecturer), Hirsch (Lecturer), Hoffman, Johnson, Markowitz, Ragins, Rubenstone, Russ, Schweitzer, Sherrick, Somoza, Swerdlow, Thompson, Van Pernis, Wong.

Research Associate: Greenspon.

Instructors: Brown, Clasen, Edwards, Habegger, Jessen, Maloney, Rabinovitz, Scaravelli, Trueheart, Valaitis.

Assistants: Alexander, Burns, Cox, Eisenstein, Friederici, O'Brien.

Pathology is that branch of natural science which is concerned with disease, its essential nature, its causes and development, and the structural and functional changes occurring in the living bodies in which it occurs.

Thus, following courses in anatomy, biochemistry, and physiology in the first year, the student is prepared to begin the study of pathology. General pathology is given during the first quarter of the second year. Special pathology and clinical pathology are presented in a single integrated program during the second and third quarters. Courses in obstetrical and gynecological pathology are offered in the third year, and in surgical pathology in the fourth year. The latter courses are given in collaboration with the Departments of Obstetrics and Gynecology and Surgery.

Required Courses — Second Year

325. General and Clinical Pathology. The basic principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances, retrograde processes, and tissue responses to specific infectious agents and neoplasms, are considered in the first part of the course. In the latter part, the disease processes affecting each organ and anatomic system are considered in greater detail. The pathologic physiology and biochemistry of disease are closely integrated with the morphologic changes. Essential diagnostic laboratory procedures are discussed as to their purpose and the manner of evaluating the results. The laboratory exercises are designed to correlate and interpret the gross and microscopic changes occurring in diseased tissues. Essential diagnostic laboratory tests are performed in relation to the diseased organ or system under study. Twelve hours each week, F and W; thirteen hours each week, Sp. Fuller, Grimm, Krakower, Learner, Mason, Pirani, Russ, and others.

Required Courses — Third Year

356. Gynecological and Obstetrical Pathology. Same as Obstetrics and Gynecology 356. This course is taught in cooperation with the Department of

Obstetrics and Gynecology. Gross and microscopic material representing the lesions of the female genital organs are presented in a systematic fashion and clinical pathological correlations stressed. One two-hour period each week for six weeks; F, W, Sp, and S. Hirsch, Kaminetzky, Slate, Swerdlow.

Required Courses — Fourth Year

375. Surgical Pathology. In conjunction with their clinical work, the surgical clerks study systematically gross and microscopic specimens illustrating the common lesions removed by surgical procedures. One two-hour period each week for twelve weeks in addition to the regularly scheduled surgical-pathologic conferences; F, W, Sp, and S. Swerdlow and others.

376. Legal Medicine. Same as Dentistry 376. Principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of doctor (dentist) and patient and their enforcement in court; expert testimony; state medical and dental statutes and general law. One hour each week; Sp. Floberg.

Required Courses — Occupational Therapy Students

324. Introduction in Pathology for Students in Occupational Therapy. Reactions of tissues to injury, healing of wounds, certain aspects of neoplasia, and the more important diseases of the locomotor system. Twelve hours of lecture and demonstration; F. Jessen, McGrew, Wong.

PEDIATRICS

Professors: Sanford (Head of Department), Bronstein, Butler, Gasul, Grulee (*Emeritus*), Hoyne (*Emeritus*), McCulloch (*Emeritus*).

Associate Professors: Biggs, Cline, Harrison, Hoffman, Kobes, Lis, Rosenthal, Shaw, Spaeth, Welker.

Assistant Professors: Barron, Bohning, Bower (*Emeritus*), Breslow, Christopherson, Crawford, Dammers, Gottstein, Hall, Halpern, Hyde, Jackson, Krugly, Lander, Leichenger, Lewison, Minhas, Pachman, Parker, Richter, Sacks, Saltiel, Schuckmell, Shmigelsky, Singh, Thomas, Tomlinson, Welford, Wolf.

Associates: Henn, Stepan.

Instructors: Bucheleres, Budzeika, Dochios, Gardner, Hayden, Katele, Keller, Knoblock, Kravitz, Lassers, LeVine, Liang, Limosani, Lubin, Lyon, Mack, Marino, Nagel, Newman, Nolan, Perez, Phillips, Polniaszek, Ratajik, Trevino, Swarts, Vrla, Williams.

Assistants: Budzeika, Erdem, Hara, Koukou, Papioanou.

Research Assistants: Asrow, Reyes.

Instruction in the Department of Pediatrics is intended to provide the student with adequate information and practical experience in infant and child care for the practice of general medicine. An attempt is made to present the concept of total care of the infant, child, and adolescent by emphasizing the physician's role in enhancing optimal physical, mental, and emotional growth as well as management of the variations therefrom. The student is also provided with an opportunity to observe the application of this information to community planning for child care. Clinical instruction is offered in the inpatient and outpatient services at the Research and Educational Hospitals, Cook County Hospital, Presbyterian-St. Luke's Hospital, Grant Hospital, the contagious disease division of the Cook County Hospital, and the Municipal Contagious Disease Hospital. Visits to infant welfare clinics and a nursery school are also included.

During the third year, a systematic course in clinical pediatrics is presented to the entire class. In place of the conventional study of diseases in infancy and childhood, the most common symptoms during this age period are considered from the standpoint of their basic physiology, pathology, and age incidence. Supplementing the didactic teaching is a six-week clerkship on the pediatric wards of the Research and Educational and Cook County Hospitals. Assessment of the normal and sick child, infant feeding, and evaluation of nutritional status are studied in small groups. Patients serve to illustrate the problems encountered in medical practice. Demonstrations in preparation of diets and occupational therapy in pediatrics are also provided. Clinical and didactic instruction in applied immunology, public health, and contagious diseases are offered in both the third and fourth years.

Instruction in the senior year consists of a six-week clerkship at the Municipal Contagious Disease Hospital, La Rabida Sanitarium, pediatric outpatient departments of the Research and Educational, Grant, Presbyterian-St. Luke's, and Cook County Hospitals, and the infant welfare units of the Cook County Health Unit. The program of study is sufficiently flexible so that the instructional staff can arrange opportunities for more intensive study of growth and development, hematology, nutrition, pediatric allergy, metabolic diseases, and endocrinology for students with special interests in any of these fields.

Required Courses — Third Year

350. Symptom Diagnosis in Infancy and Childhood. Systematic group lectures on the basic mechanisms and age incidence of thirty of the most common symptoms of infants and children. One hour each week; F, W, and Sp. Bronstein, Rosenthal, Sanford.

351-352. Clerkship. Introduction to the clinical study of the infant, child, and adolescent. History taking, physical examination, and laboratory study of the pediatric patient is taught by demonstration and intensive individual case study. The physical, intellectual, and emotional growth of the

patient is studied concomitantly with the medical problems presented. The application of the principles of nutrition is considered in relation to breast feeding, artificial feeding, and dietary supervision of the normal and the sick child. One hour each week is devoted to problems in dermatology, otolaryngology, and ophthalmology. Six hours a day for six weeks; F, W, and Sp. Bohning, Budzeika, Hyde, Lassers, Limosani, Lis, Lyon, Sanford, Singh, Treviño. Dermatology: Falk, Haeberlin, Slepyan. Ophthalmology: Folk, Haas, Hughes, Pearlman, Wolder. Otolaryngology: Dale, Lederer.

Required Courses — Fourth Year

375. **Clerkship.** The clerkship is of six weeks duration. It is divided into two small groups which are assigned to the pediatric departments of the Research and Educational Hospitals and the Presbyterian-St. Luke's Hospital for the study of patients on the wards and in the outpatient departments. One morning each week is devoted to the study of contagious diseases at the Municipal and County Contagious Disease Hospitals. At this time the theory and practice of immunizations in pediatrics are considered. One morning each week is spent at the LaRabida Sanitarium where small groups receive systematic instruction on the diagnosis and management of rheumatic fever. Students are provided an opportunity to visit nursery schools, infant welfare clinics, and school health programs, and to serve as advisory members of the medical staff. The clerkship thus affords a broad orientation in the fields of infant and child welfare, public health, and pediatric practice in the office and in the hospital wards. F, W, and Sp. Breslow, Dammers, Halpern, Hyde, Jackson, Krugly, Lassers, Lis, Mack, Pachman, Polniaszek, Richter, Rosenthal, Saltiel, Sanford, Singh, Welford, Welker, Wolf.

376. **Pediatric Seminars.** Pediatric symptom diagnosis, pediatric therapeutics, endocrinology, and current pediatric journal reviews are presented in seminar session. Four one-hour periods each week during the pediatric clerkship; F, W, and Sp. Barron, Bohning, Bronstein, Cline, Gasul, Hyde, Lewison, Lis, Minhas, Polniaszek, Schuckmell, Shaw.

Required Courses — Occupational Therapy Students

324. **Pediatric Occupational Therapy.** The role of the occupational therapist in pediatrics. Twelve hours of lecture; F, W, and Sp. Sanford, Schuckmell.

PHARMACOLOGY

Professors: Unna (Head of Department), Camp, Drill (Lecturer), Isbell (Lecturer), McGuigan (*Emeritus*).

Associate Professors: Busch, Sherrod.

Assistant Professors: Funderburk (Lecturer), Gyermek, Martin, Smith.

Research Associates: Nair, Zaratzian.

Instructors: Blanke, Riehl.

Research Assistant: Kormendy.

Pharmacology is the science which deals with the qualitative and quantitative aspects of the action of drugs and other chemical substances upon the living organism. A drug is a chemical compound which has therapeutic usefulness. Pharmacology has the following general subdivisions: pharmacodynamics, chemotherapy, toxicology, and therapeutics. Pharmacodynamics is the study of physiological and biochemical events resulting from the action of drugs for microorganisms, parasites, and neoplastic diseases. Chemotherapy is the study of the selective toxicity of drugs for microorganisms, parasites, and neoplastic diseases. Toxicology is the study of the noxious actions of chemical compounds. Therapeutics is the study of the effects of drugs in combating disease.

Pharmacology is intimately interwoven with other medical sciences. A clear understanding of biochemistry and physiology is necessary for the interpretation of drug action. Rational therapeutics depends upon knowledge of pathogenesis and pathology. There is similarly a close connection between pharmacology and bacteriology, biophysics, anatomy, and other fundamental medical disciplines.

The purpose of the courses in pharmacology is primarily to provide the student with sufficient knowledge of drugs and modes of drug action so that the patient can be intelligently and adequately treated.

Required Courses — Second Year

325-326-327. Pharmacology, Toxicology, and Chemotherapy. Lectures and discussion periods, F, W, and Sp; three-hour weekly laboratory, W; two-hour weekly demonstration, Sp. Prerequisite: Acceptable courses in biochemistry and physiology. Unna and staff.

PHYSICAL MEDICINE AND REHABILITATION

Professors: Abramson (Head of Department), Kendell.

Associate Professor: Gordon.

Assistant Professors: Flank, Fleischer.

Research Assistants: Tuck, Turman.

Physical medicine and rehabilitation is concerned with the application of physical agents for diagnostic and therapeutic purposes. The physical and other properties of heat, light, electricity, water, massage, and exercise are employed for the prevention of deconditioning, mobilization of joints, increase in strength, power, and endurance, for muscle re-education, or improvement in general

health and physical fitness. The techniques and procedures of physiatrics assist in the maximal utilization of residual abilities for total rehabilitation purposes. They include training in the physical skills required for independent living. Among the special services offered by the department are electrodiagnosis and electromyography.

Required Courses — Occupational Therapy Students

324. Physical Medicine and Rehabilitation for Occupational Therapy Students. An introduction to the use of physical medicine in the rehabilitation of the physically handicapped. Lectures and demonstrations covering the physiologic basis of therapeutic exercise, utilization of physical modalities, methods of disability evaluation, principles of physical restoration and body mechanics, the use of assistive devices, and an analysis of disorders commonly referred to physical medicine with a discussion of therapeutic measures employed. Twenty-four hours of lectures; W.

PHYSIOLOGY

Professors: Wolf (Head of Department), Crandall (Lecturer), Guillemin, Himwich (Lecturer), Ingraham, Marbarger, Reed (*Emeritus*), Whitehorn.

Associate Professors: Darrow, Greenberg.

Assistant Professors: Alpert, Glaviano, Macey, Omachi, Schwartz (Lecturer), South.

Instructor: Young.

Research Assistant: Barbato.

Physiology is the study of function of normal living organisms. It seeks to understand the ways in which various parts of the body work to adapt the organism to its internal and external environments. Physiology utilizes knowledge supplied by such physical sciences as chemistry and physics on the one hand, and knowledge derived from the study of disease (which is fundamentally abnormal or pathological physiology) on the other.

The teaching program for undergraduate students of the College of Medicine emphasizes mammalian and human physiology. The three required courses for medical students cover all fields of human physiology in sufficient detail to serve as a sound basis for the remainder of the curriculum and subsequent medical practice. The facts and principles of physiology are integrated with those of the other medical sciences, particularly anatomy and biochemistry. Its relationships to disease are emphasized and demonstrated not only by suitable laboratory experiments, but also by illustrative patients and hospital and clinic records. The primary aim of the teaching program of the department is to assist the medical student in acquiring an organized knowledge of biology and medi-

cine which will enable him to avoid empiricism and to practice his profession intelligently.

The elective advanced courses listed below are for those medical students who wish more specific knowledge of certain fields of physiology and its clinical applications or who wish to obtain experience in research. Such students are encouraged to consult the department about these courses and opportunities in the Graduate College program of the department, which may be pursued with a full medical curriculum.

Required Courses — First Year

301. Human Physiology. Physiology of muscle and nerve, blood, circulation, and respiration. Lectures, conferences, correlation exercises, demonstrations, and laboratory. Nine and one-half hours each week; F. Alpert, Glaviano, Greenberg, Ingraham, Macey, Marbarger, Omachi, South, Whitehorn, Young, and others.

302. Human Physiology. Continuation of Physiology 301. Physiology of the gastrointestinal tract and liver, temperature regulation and endocrines, and kidney and water balance. Lectures, conferences, correlation exercises, demonstrations, and laboratory. Nine and one-half hours each week; W. Alpert, Glaviano, Greenberg, Ingraham, Macey, Marbarger, Omachi, South, Whitehorn, Young, and others.

303. Human Physiology. Continuation of Physiology 302. Physiology of the central nervous system and senses. Lectures, conferences, demonstrations, correlation exercises, and laboratory. Nine and one-half hours each week; Sp. Alpert, Glaviano, Greenberg, Ingraham, Macey, Marbarger, Omachi, South, Whitehorn, Young, and others.

Elective Courses
(Open only to qualified students. Time to be arranged.)

304. Biophysics. This course presents physical principles, techniques, and instrumentation applicable to biological and medical research, clinical diagnosis, and therapy. Topics are selected from the following branches of physics: mechanics, sound, heat and thermodynamics, electricity, and electronics. Lectures, conferences, and demonstrations. Three hours each week; W. Guillemin.

305. Biophysics. Continuation of Physiology 301. Topics are selected from the following branches of physics: light, X-rays and other radiations, atomic and nuclear physics. Lectures, conferences, and demonstrations. Three hours each week; Sp. Guillemin.

351. Advanced Physiology. This course is designed to meet the needs of students desiring advanced, detailed knowledge of a limited field. Different fields are selected and announced in advance. Subjects covered are blood,

circulation, muscle, gastrointestinal tract, kidney, endocrines, metabolism and nutrition, growth, and neurophysiology. One two-hour period each week; F, W, and Sp. Alpert, Glaviano, Greenberg, Ingraham, Marbarger, Omachi, South, Whitehorn, Young, and others.

352. Problems in Physiology. Research in physiology for third-year and fourth-year medical and dental students who do not have the baccalaureate degree. F, W, and Sp. Alpert, Glaviano, Greenberg, Ingraham, Macey, Marbarger, Omachi, South, Whitehorn, and others.

PREVENTIVE MEDICINE

Professor: Lepper (Head of Department).

Associate Professors: Hull (*Emeritus*), Rosenthal, Saxton.

Assistant Professors: Ostfeld, Spies.

Instructor: Wood.

Research Assistants: Goodman, Mikouchi.

The objectives of the Department of Preventive Medicine are to make the student aware of the importance of the hereditary and environmental factors in health and disease with special reference to the social and economic factors; to relate these factors to the problems of patients; to familiarize the student with the various community agencies which are helpful in the conservation of health and in the prevention and treatment of illnesses; and to coordinate the student's knowledge of the techniques which are now available for the physician's use in the prevention of disease.

The basic information in this field is covered in lectures and demonstrations in the second year, and this is extended by lectures in the third year. Also in the third year, seminars are given with the cooperation of other preclinical and clinical departments in order to integrate the student's thinking about diseases and groups of diseases and to relate the knowledge and attitudes of the medical profession to the attitudes of people outside the field of medicine. In the senior year, by studying patients in the outpatient department and in their homes, students are given an opportunity to relate the social and environmental factors in health and disease to the problems of patients.

Required Courses — Second Year

330. Preventive Medicine and Public Health. Given in conjunction with the Department of Public Health. Same as Public Health 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp.

Required Courses — Third Year

350. Preventive Medicine. Lectures and demonstrations on various aspects of the conservation of health and the prevention of disease. One hour each week; Sp.

Required Courses — Fourth Year

375. Social Environment in Relation to Illness. An outpatient clerkship at the Research and Educational Hospitals for one-third of the class. Patients are studied in the clinic, followed by conferences which consider the environmental and host factors in the natural history of the patient's disease and the implication of such findings on management. Two hours a week for six weeks; F, W, and Sp.

PSYCHIATRY

Professors: Gerty (Head of Department), Alexander (*Emeritus*), Bailey, Bosselman, Carmichael, A. Geiger, Haggard, Hamill (*Emeritus*), Josselyn, Meduna, Mohr (*Emeritus*), Shakow (Lecturer), Tower.

Associate Professors: Abood, Braude (*Emeritus*), Gyarfas, Handler, Hoffman (*Emeritus*), Morrison, Nielson, Olkon (*Emeritus*), Pollock, Rosenwald, Sherman (*Emeritus*), Simmel, Solomon, Weinberg.

Assistant Professors: Altschul, Bauman, Beiser, Benjamin, Bernstein, Block, Brockman, Buettner, Chaplik, Cheifetz, Cooke, Flarsheim, Giovacchini, Gray, Green, H. Greenberg, Halperin, Hanni, Harman, Harris, Israel, Koenig, Koff, Koketsu, Lage, Lams, Levine, Liebman, Littner, Longini, McMillan, McPherson, Meehan, Miller, Murray, Nemecek, Nudelman, Paschkes, Paskind (*Emeritus*), Pitts, Rhead, A. Robertson, R. Robertson, Rosenthal, Rowe, Rudy, Ruehr, M. B. Schwartz, Segenreich, Sklansky, Spurlock, Steed, Stewart, Tarlow, Tourlentes, Victor, Visotsky, Weisdorf, Westfall, Wright, Zielinski.

Research Associates: Brody, Domnas, R. Geiger, Isaacs, Kawakita, Lebovits, Shibata.

Instructors: Armstrong, D. Barron, Bolin, Chessick, Davis, Diamond, Ginsberg, Goodman, Gross, Gwyer, Hughes, Kitt, Kramer, Lakin, Lee, Lifson, Loesch, Mintek, Nathan, Perce, Peskind, Ruess, Sable, M. L. Schwartz, Smith, Tolpin, Weinfeld, Wied.

Assistants: Affeldt, DeVrijer, Eanet, Eisen, Elstein, Gelman, N. Greenberg, Halasz, Mason, Moore, Rocah, D. Schwartz, Schwarz, Wasserman, Woloshin.

Research Assistants: Adachi, Chapman, Field, Glickstein, Kafka, Nishi, Vogel.

Required Courses — First Year

310. **Growth, Development, and Deviations of the Personality, I, II, and III.** An orientation course presenting the correlation between psychologic, physiologic, sociologic, and psychiatric forces on the individual and his social environment. The first two quarters cover the dynamic aspects of the personality from birth through adolescence. Throughout, the emphasis is not only on the immediate period studied but also on its relationship to subsequent developments. Formal lectures and case demonstrations are used. Direct experience in observation is provided through individual case contacts on the Pediatric Service. The third quarter covers the period of young adulthood, middle age, senescence, and death. Reference to material studied previously is constantly made. Collaboration with the Department of Preventive Medicine is utilized. Fundamentals of psychiatric interviewing and history taking are presented in orientation to the psychosomatic approach. Formal lectures, informal discussions, and case demonstrations are used. One hour each week; F, W, and Sp. Beiser, Lepper, Pollock, Swarts.

Required Courses — Second Year

325. **Introduction to Clinical Psychiatry: Psychopathologic and Therapeutic Approach.** The sophomore course in psychiatry is designed to present principles of psychopathology and therapeutic approaches utilized in psychiatry. It is hoped that this correlates more specifically with the other courses given in the sophomore medical curriculum, as well as material that had been presented in the freshman course in psychiatry. Wherever possible, clinical material is used to illustrate the above. The first quarter is devoted to a study of the neuroses and allied conditions. The second quarter is concerned primarily with the psychotic disturbances. One hour each week; F and W. Bosselman, Pollock.

Required Courses — Third Year

350. **Clinical Descriptive Psychiatry.** The clinical course for juniors deals with the integration of general psychiatry and psychopathology to medical practice. Presentation is oriented to a somatopsychic approach with emphasis on patient-doctor relationships. Selected systemic diseases are used for illustration. One hour each week; F. Weinberg.

351. **Clinical Clerkship.** The chief instruction in the first clinical year is given in this course. Students are assigned patients on the wards of the Neuropsychiatric Institute for individual study and also have the opportunity to study cases at the Cook County Psychopathic Hospital under supervision. The students attend clinical demonstrations at Cook County Psychopathic Hospital and the Neuropsychiatric Institute. Under the supervision of attending hospital staff, the students in small groups consider the various

factors operative in mental illness. Under supervision of the Medical Social Work Department, students interview patients' families and investigate the effect on the family of a patient's illness and genetic factors in the illness. Emphasis is on the interpersonal relationships between the doctor and the patient. For one day each week, the student spends his time on the medical wards of Cook County Hospital, where a psychiatric consultant is assigned as a part of a team approach to the patient. Three hours each day for four weeks; F, W, and Sp. Altschul, Armstrong, Barron, Binns, Bosselman, Chaplik, Gerty, Gray, Large, McMillan, Mintek, Nemecek, Nielson, Smith, Tarlow, Weinberg.

Required Courses — Fourth Year

375. **Clerkship.** Supervised experience in interviewing patients in the psychiatric outpatient department, with discussion of the doctor-patient relationship, the specific problems revealed by the patient, and the means of treatment. An attempt is made to create a practical understanding of psychotherapy. Supplementary discussion groups are held to consider psychiatric principles which are of value in the evaluation and treatment of all patients, using illustrative materials representing common problems seen in all branches of medical practice. In addition, during that part of the medical clerkship which the student spends on the general medical wards, psychological problems of the patient are considered as they relate to the total understanding and treatment of the patient. This is accomplished through integrated teaching on the medical wards where a psychiatrist is present as a member of the clinical team. Psychiatric outpatient work is at either the Neuropsychiatric Institute, half days for six weeks, or at the Presbyterian-St. Luke's Hospital, two half days for six weeks. Inpatient work on general medical wards is in coordination with the Department of Medicine either at the Research and Educational Hospitals or at Presbyterian-St. Luke's Hospital throughout the medical clerkship. F, W, and Sp. Davis, Flarsheim, Ginsberg, Gross, Levine, Liebman, McPherson, Moore, Nudelman, Paschkes, Rowe, Sable, Smith, Steed, Tourlentes, Weisdorf.

Elective Courses

377. **Seminar in Psychosomatic Problems.** Discussion of principles and demonstration of cases. One and one-half hours each week; F, W, and Sp. Open to physicians, residents, interns, and senior medical students with consent of instructor. Pollock, Tower.

Required Courses — Occupational Therapy Students

324. **Psychiatry for Occupational Therapy Students.** A brief description of the major neuroses and psychoses is presented. The emphasis is made upon

understanding the development of the personality, the factors which contributed toward the development of the illness, and the methods to be employed in the handling of specific problems presented by the patient in occupational therapy. Twenty-four hours of lectures; F.

PUBLIC HEALTH

Professors: Shaughnessy (Head of Department), Batson.

Associate Professor: Piszczek.

Assistant Professors: Abrams, Klassen, McDaniels, Morse (Lecturer).

Research Associate: Dove.

Public health has been defined as "the science and the art of preventing disease, prolonging life, and promoting physical and mental health and efficiency through organized community efforts for the sanitation of the environment, the control of community infections, the education of the individual in principles of personal hygiene, the organization of medical and nursing service for the early diagnosis and preventive treatment of disease, and the development of social machinery which will ensure to every individual in the community a standard of living adequate for the maintenance of health."

The objectives of the Department of Public Health are to provide the student with information about the agencies through which community action for the prevention of disease and conservation of health are fostered; to show the ways in which these are related to the physician and how they may aid him in his practice; to point out the responsibilities of the physician to official public agencies; and to provide the student with the basic information which will permit him to assume his place in the community health program.

The student receives an introduction to public health in the basic courses given during the second year. He is given further opportunities to learn about community health in the third and fourth years through a teaching program which is integrated with those of some of the clinical departments.

Required Courses — Second Year

326. Introductory Statistics. An introduction to statistical terminology and concepts designed to aid medical students in understanding medical literature and in evaluating data. Twelve one-hour lectures; F. Batson and staff.

330. Preventive Medicine and Public Health. Given in conjunction with the Department of Preventive Medicine. Same as Preventive Medicine 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp. Shaughnessy and staff.

Elective Courses

376. **Industrial Hygiene.** A discussion of the relation of the industrial environment to diseases of occupational and non-occupational origin. Elective for senior students. One hour each week; W. Abrams and others.

RADIOLOGY

Professors: Harvey (Head of Department), Squire, Wachowski.

Associate Professors: Beilin, Clark, Lochman, Moos, Petersen.

Assistant Professors: Braun, Buenger, Hendrickson, Leader, Liebner, Melamed, Pantone, Starkman, Whitney, Wilson.

Instructors: Baker, Lewis, Sandberg, Savory, Steinberg, Zannis.

Assistants: Brooks, Fish, Greenfield, Hartman, Hussey, Leary (military leave), Ringus, Walker.

The aim of the teaching program is to familiarize the student with X-ray methods of analysis as applied to anatomy, physiology, and pathology. Continual emphasis is placed on the ever-increasing scope of radiology, the indications for, and limitations of, various diagnostic and therapeutic procedures, the physical, biological, and genetic principles underlying radiation hazards, and means of preventing or minimizing dangers.

The teaching program is continuous throughout the four years of medical school. First year students are provided with films for anatomical study and are encouraged to participate in patient fluoroscopic examinations to correlate motion, function, and relationships with dissection material. During the second year, there is close correlation between X-ray and autopsy findings. In the clinical years, there is constant integration of X-ray with the various branches of medicine through case study, conferences and rounds. Radiology is represented at most of the formal correlation conferences throughout the four years.

Required Courses — Second Year

349. **Radiology.** This is a survey course covering diagnostic and therapeutic fields of radiology. Diagnosis is approached through general discussions of underlying physical and mechanical principles of different types of equipment, purpose of different types of examinations, patient preparation, patient tolerance, and limitations of various examinations. Emphasis is placed upon normal ranges, significant variations, and abnormal findings. The therapeutic portion includes actions and uses of radium, roentgen rays, and radioactive isotopes. Biological effects of radiations, public health aspects of atomic medicine and warfare, and selected items of criminal detection and legal identity and responsibility are included. Lectures and demonstrations one hour each week; Sp. Harvey, Liebner, Moos.

Required Courses — Third Year

374. **Dispensary Radiology.** Logic and technic of X-ray interpretation are taught in small groups. Correlation of patients' symptoms and X-ray findings is made by clinical rounds. Detection and management of cancer is taught by demonstration and discussion in tumor clinics, wards, operating rooms, and radiation therapy section. F, W, and Sp. Baker, Beilin, Braun, Brooks, Buenger, Clark, Fish, Greenfield, Hartman, Harvey, Hendrickson, Hussey, Leader, Leary (military leave), Lewis, Liebner, Lochman, Melamed, Moos, Pantone, Petersen, Ringus, Sandberg, Savory, Squire, Starkman, Steinberg, Wachowski, Walker, Whitney, Wilson, Zannis.

SURGERY

GENERAL SURGERY

Professors: Cole (Head of Department), Baker (*Emeritus*), Bamberger (*Emeritus*), Beattie, David (*Emeritus*), de Takats, Fell, Gilchrist, Greeley, McArthur (*Emeritus*), Miller (*Emeritus*), Nadeau (*Emeritus*), Puestow, Straus, Van Hazel.

Associate Professors: Anderson, Davis, Diggs, Everson, Garside, Grove, Guy, Hazlett (*Emeritus*), Jenkins, Jirka (*Emeritus*), Julian, Koucky, Langston, Laskin, Lawton, Lyon, McMillan, Monroe, Oden (*Emeritus*), Olwin, Parker, Requarth, Reynolds, Schultz, Seed, Slaughter, Southwick, Strohl, Theis, Thorek.

Assistant Professors: Almquist, Atterbury, Barber, Black, Branch, Brown, Cross, Curtin, DePeyster, Diffenbaugh, Dye, Eastman, Economou, Engelmann, Fowler, Gibbel, Green, Hanselman, Hardt, Harridge, Hess, Ireneus, Javid, Jensik, Kaiser, Kilbourne, Lopez-Belio, Majarakis, Matson, G. O. McDonald, H. I. Meyer, Mrazek, Olander, Orndorff, Peterson, Pribble, Riker, Roth, Schneewind, Shambaugh, Shorey, Stokes, Wasick, Werelius.

Clinical Associate: Witkowski.

Research Associate: Koppel.

Instructors: Canham, Cannon, Chan, Correll, Cruz, Douglas, Frisch, Guynn, Haley, Hamlin, Heidenreich, Henderson, Hutchings, Jamieson, Jensen, Knock, R. O. Lewis, Looby, Madden, McAndrew, McCredie, C. J. Mock, H. E. Mock, Jr., Moore, Muenster, Nasralla, Otten, Pastnack, Pepper, Powers, Proffitt, Rasmussen, Reiser, Renaud, Smejkal, Solander, Tannehill, Watne, Weinberg, White.

Assistants: Barker, Braver, Cagle, DeArmas, Diddams, Elwood, Faber, Fiscus, Gleason, Hunter, Iknayan, Johnson, M. Lewis, Lorentson,

Marshall, Mattos, McDermott, R. H. Meyer (on leave of absence for military service), Morales, Morehead, Overstreet, Parrott, E. G. Paul, H. A. Paul, Reich, Rendleman, R. C. Schultz, Stansel, Stitt, Streihl, van Reit, Verbic, Williamson, Witanowski.

Research Assistants: El-Issa, Jackson, Lima, Roberts.

The major functions in undergraduate teaching of surgery are to teach surgical diagnosis, preoperative and postoperative care, and the principles of operative technic. Several additional years of intern and residency experience are required to obtain sufficient training in operative technic and judgment to qualify as a surgeon.

In the sophomore year the student receives an introduction to surgery through conferences and lectures given as part of correlation conferences by members of the surgical department.

In the junior year the student begins clerkship work on the ward where he takes the patient's history, performs examinations, and scrubs with the surgical team in the operating room when his patients come to surgery. In the preoperative preparation of the patient and particularly in the postoperative care, the student comes in direct contact with the clinical application of physiology, biochemistry, and the other basic sciences, because in this phase of surgery the correlation with other specialties is very close. Numerous clinics are held during this clerkship period when problems in various surgical specialties as well as in general surgery are discussed.

In the senior year the student continues with a ward clerkship, but in addition is assigned work in the various surgical dispensaries. Likewise, various surgical clinics are held where the patient is used as a basis for presentation and discussion of surgical problems.

Required Courses — Third Year

350. Surgical Clinic. Research and Educational Hospitals. One hour each week for twelve weeks; F, W, and Sp. Cole, Greeley, Requarth, Reynolds, Schultz.

351. Surgical Pathology. Research and Educational Hospitals. One hour each week for twelve weeks; W. Slaughter, Southwick.

353. Surgical Clerkship. Students are assigned patients and are responsible for the history and laboratory work. General (also emergency), thoracic, oral, pediatric, plastic, and vascular surgery are included. Thirty-three hours each week for twelve weeks; F, W, and Sp. Research and Educational Hospitals: Cole, de Takats, Greeley, Grove, Julian, Peterson, Puestow, Thorek, Van Hazel, and others. Presbyterian-St. Luke's Hospital: Beattie, Fell, Gilchrist, Straus, and others. Cook County Hospital: Fell, Gilchrist, Straus, and others.

354. Tumor Clinic. One hour each week for twelve weeks; F, W, and Sp. Slaughter, Southwick, and others.

Required Courses — Fourth Year

375. **Surgery Dispensary and Tumor Clinic.** History taking, diagnosis, minor surgery, and surgical dressings. Research and Educational Hospitals. Two two-hour periods each day for two weeks, assigned six evenings to Emergency Room; F, W, and Sp. Cole, de Takats, Fowler, Greeley, Grove, Jensik, Julian, Requarth, Schultz, Slaughter, Van Hazel, and others.

376. **Clerkship.** Presbyterian-St. Luke's Hospital (twelve weeks) or at Research and Educational Hospitals (with six weeks in the Dispensary and six weeks on the Orthopedic Ward); all day except Wednesday morning and afternoon and Saturday morning. Presbyterian-St. Luke's Hospital: Beattie, Fell, McMillan, and others. Research and Educational Hospitals: Black, Brown, Greeley, Heck, Lambert, Ray, Van Hazel, and others.

Required Courses — Occupational Therapy Students

324. **Surgical Conditions.** Physical conditions which are treated through surgery, including definitions, causes, symptoms, prognosis, and possible complications. Surgical treatment in relation to the value of occupational therapy in preoperative and postoperative treatment, with consideration for the patient's total rehabilitation. F and Sp.

UROLOGY

Professors: Baker, Heckel.

Associate Professors: Buckman, Grauer, Herrold (*Emeritus*), Kiefer, Merricks.

Assistant Professors: Baumrucker, Drabanski, J. H. McDonald, Murray, Papierniak, Ritch, Schacht.

Clinical Associate: Graf.

Instructors: Callahan, Cottrell, Firfer, Haeger, Mathis, W. C. Meyer, Valenta, Wiggishoff.

Assistants: Calams, Deniz.

Required Courses — Third Year

353. **Clerkship.** Given in conjunction with Surgery 353. Students are assigned patients and are responsible for the history and laboratory work. They also attend ward rounds. F, W, and Sp. Research and Educational Hospitals: Kiefer and others. Presbyterian-St. Luke's Hospital: Heckel, Merricks.

361. **Clinical Urologic Seminar.** The more important urologic conditions are covered in detail by discussion and demonstration of patients. One hour each week for twelve weeks; F, W, and Sp. Kiefer and others.

Required Courses — Fourth Year

356. **Urology Dispensary.** History taking, examinations, and treatment. Research and Educational Hospitals. Four two-hour periods each week for two weeks; F, W, and Sp. Drabanski, Herrold, Kiefer, Ritch, Schacht, and others.

ANESTHESIOLOGY

Professor: Sadove (Head of Division).

Associate Professors: Balagot, Gittelson, Lyons (*Emerita*).

Assistant Professors: Levin, Medley, Remlinger, Schiffrin, Schmidt, Searles, Shima, Stafford, Yon.

Instructors: Cawley, Gleave, Heckel, Katz, Nelson, Reyes, Rose, Seymour, Tennant, Wagenaar.

Assistants: Berlin, Burchell, Chong, Fassbinder, Frye, Hatano, Hazinski, Herrera, Hnilo, Kezdi, Kurylak, Lerner, Maddalosso, J. Morales, Munoz, Paprikoff, Torrey, Ventafridda, Vitrungs, Zbick.

Required Courses — Third Year

362. **Principles of Anesthesia.** One hour each week for twelve weeks; W. Sadove and others.

Required Courses — Fourth Year

358. **Clerkship.** Given as part of Surgery 358. The student is assigned to anesthesia full time for one week; under supervision, he gives the anesthetic to patients in the operating room. F, W, and Sp. Sadove and others.

MEDICAL ILLUSTRATION

Professors: Goodwin (Head of Department), Jones (*Emeritus*).

Assistant Professors: Hospodar, Linden.

Instructor: Morgan.

The Department of Medical Illustration is organized as a department of the Chicago Professional Colleges and has working relations with the Colleges of Dentistry, Pharmacy, and Medicine, and the School of Nursing.

The department conducts service functions related to illustration, photography, and use of visual aids. In addition, it conducts an educational program as outlined in the specific course mentioned.

Special Course for Non-Medical Students

100. Medical Illustration. A course of twenty-two months in illustration as applied to the broad field of medical education, with students working in the Illustration Studios with the staff artists and in the Department of Anatomy, is offered to candidates presenting evidence of thorough training in art and a sound scholastic record, including a bachelor's degree. The first year of study includes: (1) a course in anatomy taken with medical students consisting of lectures and laboratory work in embryology, histology, neurology, and gross anatomy, including the dissection of an entire human body; (2) drawing in detail of dissections, bones, and organs of the body prepared in conjunction with anatomy studies; (3) special consideration of accurate observation and interpretation of technics and media of illustration such as wash drawing, crayon, pen and ink, and water colors; (4) lettering and the preparation of charts and graphs as applied to medical subjects. The second year includes practical applications of illustration in the widest sense to publishing and medical education. Emphasis is placed on the theories of visual instruction and the growing responsibility of the illustrator for the improvement of medical education through all types of graphic media by means of: (1) illustrative projects in anatomy, surgery, and pathology, working from autopsy, operating room, and dissection material; (2) opportunity to participate in the planning, design, and preparation of lay and scientific exhibit material; (3) adaptation of various materials to three-dimensional representation of scientific subjects. Technics for working clays, waxes, plaster, plastics, moulages, wood, and metals are among those studied. Except in unusual cases, application for admission to the course must be made in person to the head of the department. The number of students which may be accepted in any one year is limited to four. The first half-year is a probation period for all students. Hours: 9:00 a.m. to 5:00 p.m. Monday through Friday and 9:00 a.m. to 12 noon Saturday. Fee for each quarter: residents, $75.50; nonresidents, $198.50.

MEDICAL SOCIAL WORK

Associate Professor: Preuch. (Head of Department).

Assistant Professors: Binns, Fassler, Hepler, Large, Merrifield, Taylor, Waite.

Instructors: Alexander, Connolly, Eccles, Fraser, Goss, Lane, Lockhart, Seltzer, Smith, Winterhalter.

Assistants: Brownlee, Callaghan, McTaggart.

The major objective of the Department of Medical Social Work is to help students to observe and to understand the variety of meanings which illness may have for patients and their families; to recognize the pertinence of family relationships and of other social factors in the appraisal of the medical problem and in the determination and success of treatment; to evaluate the significance of such factors in specific situations; and to learn what types of community facilities for rehabilitation are available. In order to help the student to develop skill in carrying out these functions, the department also teaches the methodology for: interviewing; exploration of sources of social information other than the patient; evaluation of observations; and use of community resources to the best advantage of the patient. For medical students in the clinical clerkships, this material is integrated into the courses in the various departments of medicine by lectures, seminars, rounds, group discussions, and conferences with one or two or with a small group of students. All teaching is related to patients currently under care in the hospitals or clinics; many of these patients are also being served by the department.

Students of nursing and occupational therapy are given similar material in didactic lectures and in small group discussions regarding individual patients.

Each year, approximately twenty graduate students of social work from the University of Illinois and the University of Chicago receive their clinical instruction in the department.

OCCUPATIONAL THERAPY

Associate Professor: Wade (Head of Department).

Assistant Professor: Clement.

Instructors: Benzies, Dally, Green, Hruby, Linden, Loomis, Perlstadt, Salmon, Schad, Tiernan.

Assistants: Engbring, Krueger, Restle, White.

The Department of Occupational Therapy offers a course of study which leads to the Degree of Bachelor of Science in Occupational Therapy. The professional curriculum meets the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association. The curriculum prepares its

registrants to function in the following areas: medicine, neurology, orthopaedics, pediatrics, physical medicine, psychiatry, and surgery. Members of the faculty of the above medical specialties, as well as those of pathology and bacteriology, provide instruction which orients the occupational therapy student in these fields and affords fundamental information essential to effective function. The close correlation between didactic instruction and practice in planning and administering treatment is effected through supervised clinical experience obtained in the occupational therapy treatment units of the Research and Educational Hospitals and affiliating institutions.

Occupational therapy is the use of directed activities as treatment. The therapist, working under the direction of a physician, contributes to the patient's physical and mental recovery or adjustment to chronic disability. This treatment assists the patient in his social adjustment and emotional development, as well as his physical restoration. Through the use of creative manual activities such as arts, crafts, recreation, music, and drama, the occupational therapist plans activities to meet the individual needs of the patient.

Plan of Instruction

The course is equivalent to five academic years. A portion of the instruction is offered in the College of Liberal Arts and Sciences (six semesters) on the Urbana campus; the last phase of instruction is given in a period of sixteen months in the College of Medicine in Chicago.

For information regarding the requirements for admission and detailed description of this course of study, a copy of the Occupational Therapy bulletin may be procured through the Office of Admissions and Records, University of Illinois, Urbana. Inquirers may also write directly to the College of Medicine, 1853 West Polk Street, Chicago 12, Illinois.

POSTGRADUATE DIVISION

The Postgraduate Division is organized as a branch of the Office of the Dean of the College of Medicine. The faculty consists of the faculty of the College of Medicine. The policy is to offer special departmental courses as well as general courses. Registration is limited, and applicants must be properly qualified. From time to time announcements are made of courses, giving details of registration, numbers accepted, tuition fees, and similar information.

Ophthalmology

330. Postgraduate Course in Ophthalmology. A full-time course designed for those graduates who have completed their internships and wish to specialize in ophthalmology. This is preparatory for a residency in ophthalmology. It consists of the following major aspects, integrated vertically according to the ocular structure as far as possible: (1) basic sciences related to ophthalmology; (2) instruction in the use of ophthalmic instruments and didactic introduction to clinical ophthalmology; and (3) demonstrations of clinical pathology. There are approximately thirty hours of organized instruction each week, including lectures, dissection of the orbit, laboratory work in histology, pathology, bacteriology, and geometric optics, demonstrations, seminars, supervised instruction in refraction and animal surgery. The facilities of both the University of Illinois College of Medicine and the Illinois Eye and Ear Infirmary are utilized. Six months; S and F. Fee: $500. From Department of Ophthalmology: Allen, Bayard, Deutsch, Folk, Haas, Hatch, Herbst, Hughes, Juska, Kirk, Kronfeld, A. Lakritz, Maher, McDonald, McGarry, Moncreiff, Pearlman, Schall, Scheribel, Snydacker, Stillerman, Tennenbaum, Theobald, Wilder, Zekman. From other departments: Birch (Medicine), Copeland (Bausch & Lomb), Kempf (Microbiology), Rappaport (Allergy), Sugar (Neuro-Surgery).

Otolaryngology

The following courses may be registered for individually or in groups, the time being arranged with the instructor. Additional hours may be scheduled with consent of the head of the department. Applicants must be graduates of a Class A medical school and present acceptable credentials.

340. Postgraduate Basic Curriculum. Provides a full-time basic curriculum of instruction for those intending to prepare for special practice. Nine months of the academic year with an addition of a three-month period of clinical work. 9:00 a.m. to 5:00 p.m. Fee: $150 tuition and $100 laboratory each quarter.

341. Principles of Otolaryngology. Lectures, demonstrations, cadaver dissection, surgical anatomy, animal and cadaver surgery, physiology, laboratory and photographic technic, histology and pathology, and seminar. Duration: Three months. Fee: $150.

342. Bronchoesophagology. Consists of lectures, animal and cadaver work, and actual experince in the bronchoscopic operating room and outpatient clinics. Includes indirect and direct laryngoscopy, bronchoscopy, and esophagoscopy. May also be scheduled separately by accredited specialists. Duration: Didactic and laboratory, two weeks. Fee: $210. Andrews, Friedberg, Holinger, Johnston.

344. Refresher Courses. Brief review courses of one or two weeks in length covering the more important subjects of the specialty. Largely didactic. Held several times during the academic year as determined by need. Fee: $75.00 a week plus laboratory fee.

Physiology

363. Clinical Physiology. (Extension course.) This course is intended to refresh practicing physicians on various aspects of applied physiology. Lectures and demonstrations. One hour each week; W and Sp. Fee: $25.00. Alpert, Glaviano, Greenberg, Ingraham, Macey, Marbarger, Omachi, South, Wakerlin, Whitehorn, Young, and others.

FACULTY OF

THE COLLEGE OF MEDICINE

FACULTY OF THE COLLEGE OF MEDICINE

Abood, Leo G., Ph.D., Associate Professor of Neurophysiology, in the Department of Psychiatry and Biological Chemistry

Abrams, Herbert K., M.P.H., M.D., Clinical Assistant Professor of Public Health

Abramson, David I., M.D., Professor of Physical Medicine and Rehabilitation, Head of the Department, and Professor of Medicine

Adachi, Chizuko, M.D., Research Assistant in Psychiatry

Adatto, Irving J., B.S., M.D., Research Assistant in Medicine

Affeldt, Thomas O., B.S., M.D., Assistant in Psychiatry

Afremow, Melvin L., M.S., M.D., Clinical Associate Professor of Medicine

Aimi, Kenji, M.D., Assistant in Otolaryngology

Aimone, John A., B.S., M.D., Clinical Assistant in Obstetrics and Gynecology

Akre, Osmund H., A.B., M.D., Clinical Assistant Professor of Medicine

Albala, Maurice M., B.S., M.D., Clinical Assistant in Medicine

Alexander, Barbara L., M.S.W., Instructor in Medical Social Work

Alexander, Franz G., A.B., M.D., Clinical Professor of Psychiatry, *Emeritus*

Alexander, Robert W., B.S., M.D., Assistant in Pathology

Allen, Edward D., B.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)

Allen, Robert L., M.D., Clinical Instructor in Ophthalmology

Allen, William H., B.S., M.D., Assistant in Neurology and Neurological Surgery

Almquist, Carl O., B.S., M.D., Clinical Assistant Professor of Surgery

Alpert, Norman R., Ph.D., Assistant Professor of Physiology

Altschul, Sol, M.S., M.D., Clinical Assistant Professor of Psychiatry

Alvarez, Walter C., M.D., Lecturer in Medicine with rank of Professor, *Emeritus*

Amtman, Leo E., B.S., M.D., Clinical Assistant Professor of Medicine, *Emeritus*

Anast, Basil P., M.D., Instructor in Parasitology, in the Department of Medicine

Anderson, Truman O., M.S., Research Associate in Medicine

Andresen, Richard H., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology

Andrews, Albert H., Jr., M.S., M.D., Clinical Associate Professor of Otolaryngology

Andrews, Charles B., B.S., M.D., Instructor in Orthopaedic Surgery

Angell, Joseph S., M.D., Clinical Instructor in Obstetrics and Gynecology

Apfelbach, Henry W., M.D., Clinical Assistant Professor of Orthopaedic Surgery

Apple, Carl, B.S., M.D., Clinical Associate Professor of Ophthalmology

Arkin, Aaron, Ph.D., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Armstrong, Berthie E., B.S., M.D., Clinical Instructor in Medicine
Armstrong, Claresa, M.S., M.D., Clinical Instructor in Psychiatry
Armstrong, S. Howard, Jr., A.B., M.D., Professor of Medicine
Arnold, Arthur, A.B., M.D., Clinical Assistant Professor of Neurological Surgery
Aronson, Alan R., B.S., M.D., Assistant in Medicine
Asrow, Gertrude, B.S., Research Assistant in Pediatrics
Atterbury, Robert A., B.S., D.D.S., Assistant Professor of Surgery
Austin, David F., B.S., M.D., Assistant in Otolaryngology
Avery, Loren W., A.B., M.D., Clinical Professor of Neurology (Rush)
Bahn, Arthur N., Ph.D., Instructor in Microbiology
Bailey, Percival, Ph.D., M.D., Distinguished Professor of Neurology and Neurological Surgery and Clinical Professor of Psychiatry
Baird, Thomas A., B.S., M.D., Clinical Associate in Medicine (Rush)
Baker, Bernard, B.S., M.D., Clinical Instructor in Radiology
Baker, Hillier L., B.S., M.D., Clinical Professor of Surgery (Rush), *Emeritus*
Baker, Lyle A., B.S., M.D., Clinical Associate Professor of Medicine
Baker, William J., B.S., M.D., Clinical Professor of Urology
Balagot, Reuben C., B.S., M.D., Associate Professor of Anesthesiology
Baldwin, David, A.B., M.D., Clinical Instructor in Medicine
Ball, Fred E., B.S., M.D., Clinical Associate in Medicine
Ballard, George P., B.S., M.D., Clinical Instructor in Medicine
Bamberger, Arrie, B.S., M.D., Clinical Professor of Surgery, *Emeritus*
Barbato, Iris M., Ph.D., Research Assistant in Physiology
Barber, Thomas K., M.S., D.D.S., Clinical Assistant Professor of Surgery
Barker, Walter L., A.B., M.D., Assistant in Surgery
Barron, David B., B.S., M.D., Clinical Instructor in Psychiatry
Barron, Samuel H., B.S., M.D., Assistant Professor of Pediatrics
Barsky, Sidney, B.S., M.D., Clinical Instructor in Dermatology
Bartels, John F., M.D., Clinical Assistant in Obstetrics and Gynecology
Bartlett, I. Erlin, A.B., M.D., Clinical Instructor in Otolaryngology
Barton, Evan M., A.B., M.D., Clinical Associate Professor of Medicine (Rush)
Batson, Herbert C., Ph.D., Professor of Biostatistics, in the Department of Public Health
Baum, Hugo C., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Baumann, Milton C., B.S., M.D., Clinical Assistant Professor of Psychiatry
Baumeister, Carl F., B.S., M.D., Clinical Assistant Professor of Medicine
Baumrucker, George O., B.S., M.D., Clinical Assistant Professor of Urology
Bayard, Walter L., B.S., M.D., Clinical Instructor in Ophthalmology
Beard, Hallard, B.S., M.D., Clinical Professor of Ophthalmology
Beattie, Edward J., Jr., A.B., M.D., Professor of Surgery
Becker, Oscar J., M.D., Clinical Assistant Professor of Otolaryngology

Becker, Robert J., B.S., M.D., Clinical Instructor in Medicine
Becker, Samuel W., Jr., B.S., M.D., Clinical Assistant Professor of Dermatology
Bedinger, Paul L., B.S., M.D., Clinical Assistant Professor of Medicine
Beebe, Robert A., B.S., M.D., Clinical Associate in Obstetrics and Gynecology
Beers, Ray F., Jr., B.S., M.D., Clinical Instructor in Medicine
Beilin, David S., B.S., M.D., Clinical Associate Professor of Radiology
Beinar, Peter J., B.S., M.D., Clinical Instructor in Medicine
Beiser, Helen R., M.S., M.D., Clinical Assistant Professor of Psychiatry
Benensohn, Sol J., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Benford, Myron C., B.S., M.D., Instructor in Ophthalmology
Benjamin, Anne, A.B., M.D., Clinical Assistant Professor of Psychiatry
Bennett, Granville A., B.S., M.D., Dean of the College of Medicine and Professor of Pathology
Bennett, William F., Jr., B.S., M.D., Instructor in Medicine
Benzies, Sandra, B.S., Instructor in Occupational Therapy
Berg, Max, M.S., M.D., Clinical Assistant Professor of Medicine
Bergeim, Olaf, Ph.D., Professor of Biological Chemistry, *Emeritus*
Berlin, Howard H., B.S., M.D., Assistant in Anesthesiology
Bernstein, Arthur, B.S., M.D., Clinical Associate Professor of Medicine
Bernstein, Leon, M.D., Clinical Assistant Professor of Psychiatry
Bernstein, Lionel M., M.S., M.D., Clinical Associate in Medicine
Berryman, George H., Ph.D., M.D., Clinical Assistant Professor of Medicine
Bessinger, Herbert, M.S., M.D., Instructor in Medicine
Best, William R., M.S., M.D., Assistant Professor of Medicine
Bielinski, Stefan, B.S., M.D., Clinical Instructor in Dermatology
Biggs, Alfred D., A.B., M.D., Clinical Associate Professor of Pediatrics
Binkley, Stephen B., Ph.D., Professor of Biological Chemistry
Binns, Lois E., A.M., Assistant Professor of Medical Social Work
Birch, Carroll L., M.S., M.D., Professor of Medicine
Black, Charles E., B.S., M.D., Instructor in Obstetrics and Gynecology
Black, Sidney, B.S., M.D., Clinical Assistant Professor of Anatomy
Bliss, Harry A., A.B., M.D., Assistant Professor of Medicine
Block, Bernard, Ph.D., M.D., Clinical Assistant Professor of Psychiatry
Blumenthal, Helmut, M.D., Clinical Assistant Professor of Otolaryngology
Blumklotz, Bruno, M.D., Clinical Associate in Otolaryngology
Boesen, Evelyn, A.M., M.D., Instructor in Medicine
Bohning, Anne, A.B., M.D., Assistant Professor of Pediatrics
Boley, Michael H., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Bolin, Richard, M.D., Instructor in Psychiatry
Bonting, Sjord L., Ph.D., Assistant Professor of Biological Chemistry
Book, Noel A., M.D., Assistant in Ophthalmology

Borkenhagen, Robert H., B.S., M.D., Assistant in Otolaryngology
Bornstein, Irene, B.S., Research Assistant in Biochemistry
Bosselman, Beulah C., A.B., M.D., Professor of Psychiatry
Bower, Lester E., A.B., M.D., Clinical Professor of Pediatrics, *Emeritus*
Boysen, Harry, B.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)
Branch, Charles D., A.B., M.D., Clinical Assistant Professor of Surgery
Braude, Morris, M.D., Clinical Associate Professor of Psychiatry (Rush), *Emeritus*
Braun, Benjamin D., B.S., M.D., Clinical Assistant Professor of Radiology
Braver, Sol D., M.S., M.D., Assistant in Surgery
Brebis, George J., M.S., M.D., Assistant Professor of Medicine
Breed, Virginia A., A.M., Instructor in Audiology, in the Department of Otolaryngology
Breitzer, Bernard, B.S., M.D., Clinical Instructor in Medicine
Brennan, Betsy B., M.S., M.D., Assistant in Dermatology (on leave of absence)
Breslow, Lawrence, A.B., M.D., Clinical Assistant Professor of Pediatrics
Breuhaus, Herbert C., B.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Brixey, Albin M., Jr., B.S., M.D., Clinical Instructor in Medicine
Brockman, David D., B.S., M.D., Clinical Assistant Professor of Psychiatry
Brody, Viola A., Ph.D., Research Associate in Psychiatry
Bronsky, David, B.S., M.D., Clinical Instructor in Medicine
Bronstein, I. Pat, B.S., M.D., Clinical Professor of Pediatrics
Brooks, Alfred J., A.B., M.D., Assistant in Radiology
Brophy, Edmond M., A.B., M.D., Assistant in Obstetrics and Gynecology
Brown, Arnold L., Jr., M.D., Instructor in Pathology
Brown, C. David, B.S., M.D., Clinical Assistant Professor of Surgery
Brown, David V. L., M.D., Assistant in Ophthalmology
Brown, Eric R., Ph.D., Instructor in Microbiology
Brown, Ralph G., A.B., M.D., Clinical Assistant Professor of Medicine
Browne, William H., B.S., M.D., Clinical Professor of Obstetrics and Gynecology, *Emeritus*
Brownlee, Dolores A., M.S.W., Assistant in Medical Social Work
Browns, Herschel L., M.D., Clinical Assistant Professor of Medicine
Bucheleres, Hans G., M.D., Instructor in Pediatrics
Buckingham, Richard A., M.D., Clinical Assistant Professor of Otolaryngology
Buckman, Edward, B.S., M.D., Clinical Associate Professor of Urology (Rush)
Budzeika, Marianne P., M.D., Assistant in Pediatrics
Buenger, Richard E., B.S., M.D., Assistant Professor of Radiology
Buettner, James A., B.S., M.D., Clinical Assistant Professor of Psychiatry
Burchell, Robert C., B.S., M.D., Instructor in Obstetrics and Gynecology
Burchell, Sara J., A.B., M.D., Assistant in Anesthesiology
Burns, Deland J., B.S., M.D., Assistant in Pathology

Burr, Mary Jo, M.S., Research Assistant in Biochemistry
Busch, Harris, Ph.D., M.D., Associate Professor of Pharmacology
Butler, Craig D., B.S., M.D., Clinical Professor of Pediatrics (Rush)
Byfield, George V., M.S., M.D., Clinical Assistant Professor of Medicine
Cagle, Jackson E., Jr., B.S., M.D., Assistant in Surgery
Cahn-Bronner, Charles E., M.D., Professorial Lecturer in Pathology
Calams, James A., M.D., Clinical Assistant in Urology
Callaghan, Sheila A., M.S.W., Assistant in Medical Social Work
Callahan, Daniel H., B.S., M.D., Clinical Instructor in Urology
Calloway, Nathaniel O., Ph.D., M.D., Lecturer in Medicine with rank of Assistant Professor
Camp, Walter J. R., Ph.D., M.D., Professor of Pharmacology and Toxicology
Campbell, James A., A.B., M.D., Professor of Medicine
Canham, Robert G., D.D.S., M.D., Clinical Instructor in Surgery
Cannon, Joseph P., A.B., M.D., Clinical Instructor in Surgery
Capelli, Paul A., B.S., M.D., Assistant in Obstetrics and Gynecology
Capps, Richard B., B.S., M.D., Clinical Associate Professor of Medicine
Carey, Clair M., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Carmichael, Hugh T., M.S., M.D., Clinical Professor of Psychiatry
Carroll, Michael E., M.D., Clinical Assistant in Ophthalmology
Carton, Robert W., A.B., M.D., Clinical Instructor in Medicine
Casal, Chiliano E., B.S., M.D., Assistant in Obstetrics and Gynecology
Casas, Raul M., B.S., M.D., Clinical Instructor in Medicine
Caseley, Donald J., A.B., M.D., Associate Dean of the College of Medicine
Casella, Philip A., M.D., Clinical Assistant Professor of Anatomy
Cassady, John R., B.S., M.D., Clinical Instructor in Ophthalmology
Catchpole, Hubert R., Ph.D., Research Associate Professor of Pathology
Cation, Vivian A., B.S., M.D., Assistant in Ophthalmology
Cawley, John E., M.D., Clinical Instructor in Anesthesiology
Chainski, Edward L., B.S., M.D., Clinical Assistant Professor of Otolaryngology
Chan, Paul Y., M.D., Instructor in Surgery
Chaplik, Seymour, B.S., M.D., Clinical Assistant Professor of Psychiatry
Cheifetz, David I., Ph.D., Assistant Professor of Psychology
Cherniack, Neil S., A.B., M.D., Research Assistant in Medicine
Chertack, Melvin M., B.S., M.D., Clinical Instructor in Medicine
Chessick, Richard, B.S., M.D., Instructor in Psychiatry
Chong, Yonnhae, M.D., Assistant in Anesthesiology
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Maddalosso, Michele, M.D., Assistant in Anesthesiology

Madden, Robert E., M.S., M.D., Instructor in Surgery
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Majarakis, James D., M.S., M.D., Assistant Professor of Surgery
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Mann, Randall L., A.B., M.D., Assistant in Medicine
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Marbarger, John P., Ph.D., Professor of Physiology
Marino, John J., B.S., M.D., Clinical Instructor in Pediatrics
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Martin, Howard F., A.M., M.D., Assistant in Otolaryngology
Maslow, William C., B.S., M.D., Clinical Instructor in Medicine
Mason, Coye C., B.S., M.D., Clinical Assistant Professor of Pathology
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Mason, Norma, A.B., M.D., Clinical Assistant in Psychiatry
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McDonald, James H., A.B., M.D., Clinical Assistant Professor of Urology
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Meredith, Paul A., A.B., M.D., Clinical Instructor in Medicine
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Parker, Morris L., B.S., M.D., Clinical Associate Professor of Surgery
Parrott, John, A.B., M.D., Assistant in Surgery
Parsons, Robert L., A.B., M.D., Assistant in Medicine
Paschkes, Erich, M.D., Clinical Assistant Professor of Psychiatry
Paskind, Jacob, M.D., Clinical Assistant Professor of Psychiatry, *Emeritus*
Pastnack, George L., M.D., Clinical Instructor in Surgery
Paul, Eudell G., A.B., M.D., Clinical Assistant in Surgery
Paul, Harold A., B.S., M.D., Assistant in Surgery
Paul, Jerome T., M.S., M.D., Clinical Associate Professor of Medicine
Paul, Oglesby, A.B., M.D., Clinical Associate Professor of Medicine
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Pearl, Allen S., Jr., B.S., M.D., Clinical Instructor in Dermatology
Pearlman, Benjamin, B.S., M.D., Clinical Assistant Professor of Medicine
Pearlman, Maurice D., M.S., M.D., Clinical Assistant Professor of Ophthalmology
Pellicore, Raymond J., M.D., Clinical Instructor in Orthopaedic Surgery
Pepper, Martin, B.S., M.D., Clinical Instructor in Surgery
Perce, Frances C., M.S., Clinical Instructor in Psychiatry
Perez, Isidro L., B.S., M.D., Instructor in Pediatrics
Perlia, Charles P., M.D., Clinical Instructor in Medicine
Perlman, Lawrence, B.S., M.D., Clinical Assistant Professor of Medicine
Perlstadt, Lillian M., B.S., Instructor in Occupational Therapy
Perlstein, Samuel, M.D., Clinical Associate Professor of Medicine, *Emeritus*
Perrelli, Salvatore L., M.D., Assistant in Otolaryngology
Perry, Judith V., A.B., M.D., Clinical Instructor in Ophthalmology
Peskind, Sarah R., A.M., Clinical Instructor in Psychology
Peters, John H., B.S., M.D., Research Assistant in Medicine

Petersen, Arthur S. J., B.S., M.D., Associate Professor of Radiology
Peterson, Lawrence W., M.S., M.D., Clinical Assistant Professor of Surgery
Peterson, Lowell F., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Pfeutze, Karl H., B.S., M.D., Clinical Professor of Medicine
Phelan, William H., B.S., M.D., Clinical Instructor in Medicine
Phillips, Frederick L., B.S., M.D., Clinical Instructor in Pediatrics
Pill, Michael P., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Pilot, Isadore, B.S., M.D., Clinical Associate Professor of Medicine
Pirani, Conrad L., M.D., Professor of Pathology
Piszczek, Edward A., M.P.H., M.D., Associate Professor of Public Health
Pitts, M. Henry, Ph.D., Assistant Professor of Psychology
Placek, Janet, B.S., Research Assistant in Biological Chemistry
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Plotkin, William H., A.M., Instructor in Clinical Speech in the Department of Otolaryngology
Pollak, Victor E., B.M., B.Ch., M.R.C.P., Research Associate in Medicine
Polley, Theodore Z., B.S., M.D., Clinical Assistant Professor of Medicine
Pollock, Frederic J., B.S., M.D., Associate Professor of Otolaryngology
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Pornoy, Robert A., M.D., Assistant in Otolaryngology
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Prec, Oldrich, Ph.D., M.D., Lecturer in Medicine with rank of Assistant Professor
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Puestow, Charles B., Ph.D., M.D., Clinical Professor of Surgery
Pulos, Peter, M.D., Clinical Instructor in Medicine
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Pushkin, Edward A., B.S., M.D., Clinical Assistant Professor of Ophthalmology
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Sherman, Irene C., Ph.D., M.D., Clinical Associate Professor of Psychiatry, *Emerita*
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Shields, Jack W., M.S., M.D., Clinical Assistant in Medicine
Shima, Arthur T., M.D., Clinical Assistant Professor of Anesthesiology
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Shoaf, Roy R., B.S., M.D., Assistant in Obstetrics and Gynecology
Sholder, Seymour, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Shorey, William D., A.B., M.D., Clinical Assistant Professor of Surgery
Shrifter, Harold B., B.S., M.D., Clinical Assistant in Medicine (on leave of absence for military service)
Sibal, Louis R., Ph.D., Instructor in Microbiology
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Siglin, Irvin S., B.S., M.D., Clinical Assistant Professor of Medicine
Simer, Parke H., Ph.D., Professor of Anatomy

Simmel, Marianne L., Ph.D., Clinical Associate Professor of Psychology
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Sloan, LeRoy H., B.S., M.D., Clinical Professor of Medicine
Sluzynski, Leonard S., B.S., M.D., Clinical Instructor in Medicine
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Smiley, William A., B.S., M.D., Clinical Instructor in Otolaryngology
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Smith, Nat E., A.B., M.D., Instructor in Medicine
Smoller, Carolyn G., A.M., Research Assistant in Anatomy
Snapp, Marshall J., M.D., Clinical Instructor in Medicine
Snitman, Maurice F., M.D., Associate Professor of Otolaryngology
Snydacker, Daniel, M.D., Clinical Associate Professor of Ophthalmology
Soboroff, Burton J., B.S., M.D., Clinical Associate Professor of Otolaryngology
Solander, Carl K., B.S., M.D., Clinical Instructor in Surgery
Solomon, Alfred P., A.B., M.D., Clinical Associate Professor of Psychiatry
Somoza, Cesar, M.D., Assistant Professor of Pathology
Sorum, Virginia R., B.S., M.D., Clinical Instructor in Neurology
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Southwick, Harry W., B.S., M.D., Clinical Associate Professor of Surgery
Spaeth, Ralph, A.B., M.D., Associate Professor of Pediatrics
Spellberg, Mitchell A., B.S., M.D., Clinical Associate Professor of Medicine
Spiegel, Manuel, M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Spies, Harold W., B.S., M.D., Clinical Assistant Professor of Preventive Medicine
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Starr, William R., A.B., M.D., Clinical Assistant in Medicine
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Steinberg, Harold, M.D., Clinical Associate in Medicine
Steinberg, Leon H., B.S., M.D., Instructor in Radiology
Stepan, Charles E., M.D., Clinical Associate in Pediatrics
Stevens, Daniel S., Ph.D., Research Associate in Clinical Science
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